Alberni Inlet CTD Data Report; 1979 to 1981

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Generally, the reports will contain raw and/or analyzed data but will not contain interpretations of the data. Such compilations will commonly have been prepared in support of work related to the programs and interests of the Ocean Science and Surveys (OSS) sector of the Department of Fisheries and Oceans.

Data Reports are produced regionally but are numbered and indexed nationally. Requests for individual reports will be fulfilled by the issuing establishment listed on the front cover and title page. Out of stock reports will be supplied for a fee by commercial agents.

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Rapport statistique canadien sur l'hydrographie et les sciences océaniques

Ces rapports servent de véhicule pour la compilation et la diffusion des données sous une forme directement utilisable par les scientifiques et les techniciens.

En général, les rapports contiennent des données brutes ou analysées mais ne fournissent pas d'interprétations des données. Ces compilations sont préparées le plus souvent à l'appui de travaux reliés aux programmes et intérêts du service des Sciences et Levés océaniques (SLO) du ministère des Pêches et des Océans.

Les rapports statistiques sont produits à l'échelon régional mais sont numérotés et placés dans l'index à l'échelon national. Les demandes de rapports seront satisfaites par l'établissement auteur dont le nom figure sur la couverture et la page de titre. Les rapports épuisés seront fournis contre rétribution par des agents commerciaux.

Les établissements des Sciences et Levés océaniques dans les régions et à l'administration centrale ont cessé de publier leurs diverses séries de rapports depuis décembre 1981. Vous trouverez dans l'index des publications du volume 38 du *Journal canadien des sciences halieutiques et aquatiques*, la liste de ces publications ainsi que le dernier numéro paru dans chaque catégorie. La nouvelle série a commencé avec la publication du Rapport n° 1 en janvier 1982.

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ABSTRACT

Lee, A.Y.P. and D.J. Stucchi, 1983. Alberni Inlet CTD Data Report: 1979 to 1981. Can. Data Rep. Hydrogr. Ocean Sci: 15 :326p.

From January, 1979 to September 1981 the Coastal Zone Oceanography Group of the Institute of Ocean Sciences conducted 23 cruises to Alberni Inlet during which a total of 461 CTD (conductivity, temperature and depth) casts were obtained. This report describes the sampling program, the instrumentation used to collect the data, data processing procedures, and data quality. An index to the calibrated data files is also provided. The bulk of the report contains the listing of the CTD and dissolved oxygen data at standard depths.

Key words: Salinity profiles, temperature profiles, Alberni Inlet.

RESUME

Lee, A.Y.P. and D.J. Stucchi, 1983. Alberni Inlet CTD Data Report: 1979 to 1981. Can. Data Re. Hydrogr. Ocean Sci: 15 :326p.

De janvier 1979 à septembre 1981, le Groupe d'océanographie côtière de l'Institut des sciences de la mer a effectué 23 croisières dans l'inlet Alberni au cours desquelles il a enregistré 461 lectures de conductivité, de température et de profondeur (CTD). Le présent rapport décrit le programme de'échantillonnage, les instruments ayant servi à rassembler les données, les méthodes de traitement des données et la qualité de ces dernières. Y figure également un index des fichiers de données etalonnées. La majeure partie du rapport est consacrée à l'énumération des données sur la conductivité, la température, la profondeur et l'oxygène en dissolution aux profondeurs normales.

Mots clés: profils de salinité, profils de température, inlet Alberni.

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INTRODUCTION

Alberni Inlet is a 70 km long fjord located on the southwestern coast of Vancouver Island, B.C. (see Figure 1). The fjord comprises two main basins, a 15 km long inner basin of maximum depth 130m which is separated from the outer basin by a double sill at 40m depth. The outer basin is considerably larger, about 40 km in extent with maximum depth of 350m. The outer basin is connected to the Pacific Ocean over a short, shallow 30m sill at the seaward end of Trevor Channel, but the main deep passage to the Pacific is via Junction Passage and Barkley Sound where the depth is approximately 100m all the way to the shelf.

In January 1979, the Coastal Zone Oceanography Group embarked on a study of the continental shelf off southern Vancouver Island. This was one component of the larger Coastal Ocean Dynamics Experiment, CODE, which involved a number of other groups from the institute. Concurrent with CODE, the Coastal Zone Oceanography Group (CZO) initiated an investigation of the exchanges between Alberni Inlet and the adjacent continental shelf. Part of the observation program from the Alberni Inlet Study entailed CTD and dissolved oxygen sampling. Reported here are the CTD and dissolved oxygen content data collected during this study. The entire Alberni Inlet CTD data set is indexed chronologically in Appendix 1.

OBSERVATION PROGRAM

The synoptic program of CTD and dissolved oxygen content measurements was started in January 1979 and was terminated in September 1982. In all, 23 cruises were carried out during this period using a number of different vessels. The stations (A0 to A15) occupied during the survey of Alberni Inlet are shown in Figure 1. Vertical profiles of temperature and conductivity were obtained routinely at all these stations, but hydrocasts for dissolved oxygen content determinations were undertaken only at stations: A1, A2, A5, A7, A9, A12 and A14. Station positions and details of the sampling procedure at those stations are listed in Table 1.

INSTRUMENTATION

The instrumentation used to collect the data consisted of 1) a Guildline Instruments Ltd. model 8700 MK II CTD (conductivity, temperature and depth) probe and control console, 2) a programmable data acquisition system - PRODAS - built by McDonald-Detwiller Ltd., 3) a Hewlett-Packard XY_1Y_2 plotter and, 4) a winch with seven-conductor cable and slip ring assembly.

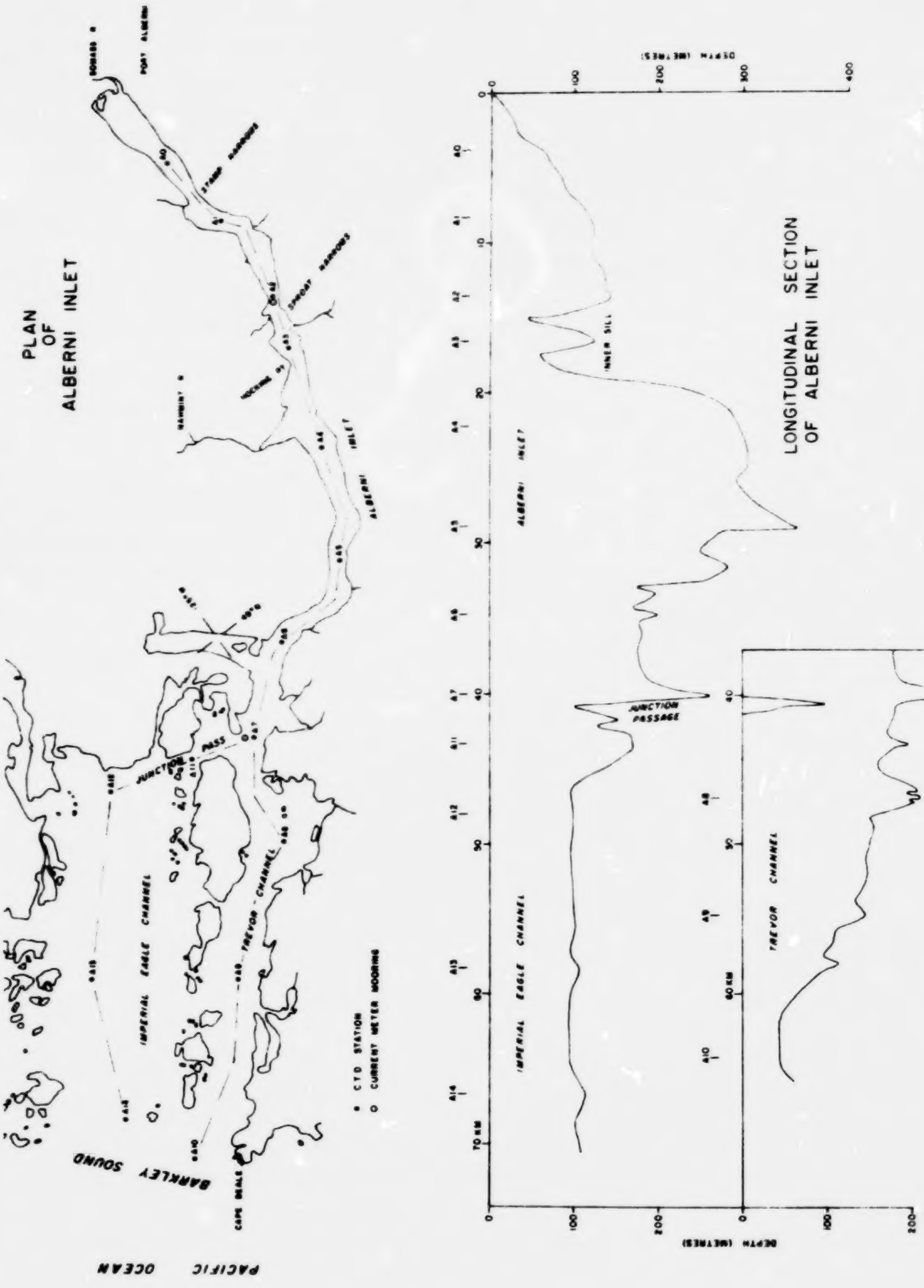
PLAN
OF
ALBERNI INLET
PORT ALBERNI
STAMP NARROWS
SPROAT NARROWS
HOCKING PT.
ALBERNI INLET
JUNCTION PASS
IMPERIAL EAGLE CHANNEL
TREVOR CHANNEL
BARKLEY SOUND
CAPE BEALE
PACIFIC OCEAN
• CTD STATION
○ CURRENT METER MOORING
LONGITUDINAL SECTION
OF ALBERNI INLET
INNER SILL
JUNCTION PASSAGE
ALBERNI INLET
IMPERIAL EAGLE CHANNEL
TREVOR CHANNEL
DEPTH (METRES)
0
100
200
300
400
10
20
30
40
50
60
70KM
60KM

Figure 1 Plan view and longitudinal section of Alberni Inlet.

Table 1

ALBERNI INLET CTD AND DISSOLVED OXYGEN STATIONS

STATION	LATITUDE N	LONGITUDE W	DEPTH (m)	OXYGEN DEPTHS (m)
AO	49°12.16'	124°49.02'	60	
* A1	49°09.91'	124°48.62'	110	50, 75, 100 m
* A2+	49°07.15'	124°48.80'	140	50, 75, 100, 125 m, salinity sample at 125 m
A3	49°05.50'	124°49.50'	120	
A4+	49°02.70'	124°51.11'	290	salinity sample at 250 m
* A5	48°59.58'	124°53.38'	360	50, 75, 100, 125, 150, 200, 200, 250, 300, 350 m
A6+	48°58.78'	124°57.80'	200	salinity sample at 175 m
* A7	48°57.02'	125°01.30'	240	50, 75, 100, 125, 150, 200 m
A8+	48°53.78'	125°03.05'	200	salinity sample at 175m
* A9	48°51.50'	125°08.10'	125	50, 75, 100, 125 m
A10	48°48.20'	125°14.40'	40	
A11+	48°57.60'	125°04.00'	150	salinity sample at 125 m
* A12	48°58.20'	125°07.80'	100	50, 75, bottom -10 m
A13	48°54.15'	125°12.95'	105	
* A14	48°50.05'	125°15.80'	110	50, 75, 100 m
A15	48°44.80'	125°21.60'	100	

* Hydro cast for dissolved oxygen samples

+ Salinity calibration samples for CTD

The method of operation is straightforward. The CTD probe is lowered and raised through the water column at the rate of 1 to 1.5m s^{-1}. Power for the probe is sent down the cable from the control console. The analogue data signals are sent up the cable (one conductor for each sensor plus a signal ground) through the slip ring assembly to the CTD deck unit and data acquisition system. In the CTD deck unit the temperature, conductivity and pressure signals are put through an analogue computer to calculate salinity and then fed to the XY_1Y_2 plotter for a real time plot of the temperature and salinity profile.

The data acquisition system accepts the probe signals directly then multiplexes (1.2 ms/6 channel scan), digitizes (16 bit A-D converter), and sums for an integral number (usually 15) of 60 Hz power supply cycles - this corresponds to a 0.25 second summation. The number of summations, the summation for each sensor and those for the zero and reference voltages are then stored in a buffer, along with header information, and subsequently written onto nine-track (800 BPI) tape. A thermal printer is used to display, in real time, a small portion of this data and any error messages relating to the operation of the data acquisition system. The operation of the data acquisition system relies on a micro-processor which has been programmed to co-ordinate and perform input-output function, summation and diagnostic checks.

For the most part CZO group's CTD system was used, however there were a number of occasions when CZO's CTD system failed and data was obtained by manually digitizing the XY_1Y_2 plots, or when other CTD probes and systems were used. These departures from the norm and other relevant comments about the data are noted in the comments column of Table 2.

DATA PROCESSING

The processing of the data collected with the CTD system was carried out on the Univac 1106 computer at the Institute of Ocean Sciences. The processing is divided into four stages: 1) the conversion of the raw datalogger data, preliminary correction and calibration, and calculation of histograms, 2) manual editing of data, 3) final calibrations and calculations, and 4) data presentation. The data processing scheme is depicted in Figure 2.

The first stage of the processing begins with the conversion of the data written by PRODAS to Univac word format. The data are next converted to voltage units, the reference voltages checked for drift and then preliminary

CRUISE #	VESSEL	DATE YR/MO/DY	TIME RESPONSE CORRECTION	DESCENT RATE CUT-OFF	COMMENTS
1	CFAV ENDEAVOUR	79/01/30	YES	YES	
2	PANDORA II	79/03/08	N/A	N/A	DIGITIZED XYY PLOTS-DATA QUALITY POOR DATALOGGER (PRODAS) FAILURE
3	CSS VECTOR	79/04/19	YES	YES	
4	CSS PARIZEAU	79/05/20	YES	YES	
5	PANDORA II	79/06/21	YES	YES	
6	CSS VECTOR	79/08/22	N/A	N/A	OCEAN ECOLOGY'S PROFIING SYSTEM
7	CSS PARIZEAU	79/10/04	YES	YES	
8	CSS PARIZEAU	79/11/28	YES	YES	
9	CSS PARIZEAU	80/02/08	YES	YES	
10	PANDORA II	80/03/26	YES	YES	
11	CSS PARIZEAU	80/04/23	YES	YES	
12	CSS PARIZEAU	80/06/13	NO	YES	OFFSHORE'S CTD PROBE (#40447) +PRODAS DATA QUALITY POOR -SLIP RING NOISE
12A	CFAV ENDEAVOUR	80/07/25	N/A	N/A	OFFSHORE'S CTD SYSTEM - DATA LOST DIGITIZED XYY PLOTS - DATA POOR
13	CSS VECTOR	80/08/12	NO	YES	NEW TEMP AND COND SENSORS INSTALLED
14	CSS PARIZEAU	80/09/19	NO	YES	
15	CSS VECTOR	80/10/23	NO	YES	
16	CSS VECTOR	80/11/24	NO	YES	
17	CSS VECTOR	81/01/07	NO	YES	
18	CSS PARIZEAU	81/02/05	NO	YES	TIME SERIES AT STATION A15,A14,A13, A12,A11,A7 AND A6.
19	CSS VECTOR	81/03/11	NO	YES	
20	CSS PARIZEAU	81/04/22	NO	YES	
21	CSS PARIZEAU	81/06/07	NO	YES	OFFSHORE'S CTD SYSTEM USED
22	CSS PARIZEAU	81/09/07	NO	YES	

Table 2

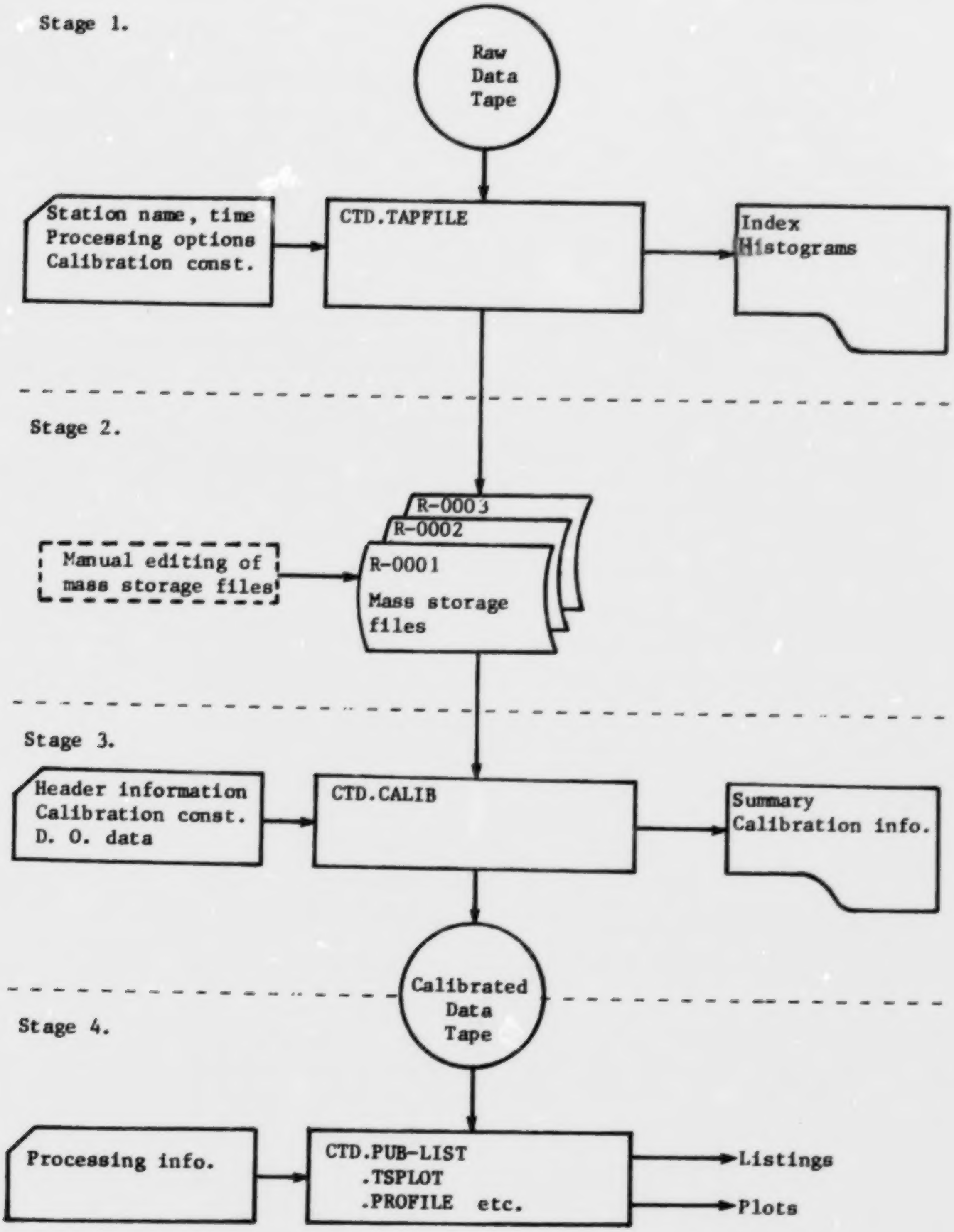
Stage 1.
Raw Data Tape
Station name, time
Processing options
Calibration const.
CTD.TAPFILE
Index
Histograms
Stage 2.
R-0003
R-0002
R-0001
Mass storage files
Manual editing of mass storage files
Stage 3.
Header information
Calibration const.
D. O. data
CTD.CALIB
Summary
Calibration info.
Calibrated Data Tape
Stage 4.
Processing info.
CTD.PUB-LIST
.TSPLOT
.PROFILE etc.
Listings
Plots

Figure 2. Data processing flow chart.

calibration applied to convert voltage to physical units, of temperature, conductivity and pressure. Because the temperature sensor has a slower response time than the conductivity sensor, the temperature data is corrected for this time response mismatch between the sensors. (This time response correction to the temperature data was only applied when the slow response - 0.25s - thermometer was fitted on the CTD.) The pressure data are checked to ensure that not only do they monotonically increase with time but also that the CTD probe is descending through the water column at a minimum speed of 0.5 m s^{-1}. The data are rejected when the above criteria are not satisfied. The reasons for rejection of these data will be discussed in the next section. Next, salinity is calculated according to the IAPSO "Practical Salinity Scale" (UNESCO 1981a). The corrected data with brief headers are written to mass storage files. Finally first difference histograms of pressure, temperature and salinity are computed and listed out together with data records which have abnormally large first differences.

The second stage is the editing of the mass storage files. The histograms and editing information produced in stage one are used to determine what editing is to be done. Editing is performed manually and usually entails the deletion of data spikes or errors, i.e. data that exceeds predetermined first difference criteria for each sensor. The determination of the editing criteria will vary as the oceanographic state being sampled changes, but as with any editing scheme there will always be a subjective component and some data errors will pass uncorrected. Our experience with these CTD data has shown that the amount of editing performed on each file is small (0 to 5 data errors/profile) with the errors invariably located in the top 10 metres of the profile.

In the third stage, the final calibrations are applied, and sigma-t (sigma-t = $[\rho(S,T,0)-1000.]$ $[\mathrm{kg\ m}^{-3}]$) and depth are computed. Sigma-t is computed using the new equation of state for seawater introduced by the UNESCO/ICES/SCOR/IAPSO joint panel on oceanographic standards (UNESCO 1981b). Depth is computed from pressure by the numerical integration of the hydrostatic pressure equation. All data is averaged over a one metre depth interval. The calibrated data is then written (unformatted) to nine track, 1600 BPI tape along with a header, which contains all the pertinent information about the particular CTD profile. The header includes: station name, position, time, date, pass number, cruise number, processing options, calibration constants, description of instrumentation, a comment field and any dissolved oxygen content data obtained at the station. Most of this header information is input in this third processing stage. One record of calibrated data is depicted below.

Depth (m)	Pressure (db)	Salinity (PPT)	Temperature (°C)	Sigma-t (kg m^{-3})	Conductivity Ratio

The fourth and final stage of processing consists of a number of different programs which are used to present and display the data. Computer programs are available to produce profile plots, temperature-salinity (TS) diagrams, displacement plots, and various listing programs. The publication listing program was used to produce the standard depth listings contained in this report.

DATA QUALITY

Calibrations in the laboratory were performed on the temperature sensor. These consisted of either ice point determinations or calibrations over a range of temperatures using the Frozen Sea Research Group's temperature bath and 3 NRC thermistors as standards or Offshore Oceanography Group's temperature bath. Checks on the conductivity circuit were performed by replacing the conductivity cell with a decade resistance box and running through the resistance range of interest.

The field checks of the temperature and conductivity sensors were obtained by placing a Niskin water sampling bottle with reversing thermometers on the 7 conductor cable, several metres above the probe. The probe and bottle were then positioned at a depth where vertical gradients in temperature and salinity were small. After a suitable stabilization period the bottle and thermometers were tripped, and simultaneously, the data from the data acquisition system were noted. Salinities determined from the bottle sample, and temperatures from reversing thermometers were then compared with those computed from the CTD data. Differences were calculated between the Guildline CTD data and in situ bottle data. The mean salinity difference or offset was then incorporated as a correction to the salinity in the third data processing stage. The mean temperature difference or offset was not used to correct the data because of the relatively large uncertainty in the reversing thermometer temperature (±0.02°C) and the large scatter in these differences (see Figure 3). The reversing thermometer data were used as an indicator for gross calibration shifts in the CTD temperature sensor. The statistics for the 2 years of in situ calibration data (153 samples) for different CTD probes and different temperature sensors indicate a mean temperature difference (CTD temperature-reversing thermometer reading) of -0.01°C with a sample standard deviation of ±0.05°C - five times as large as

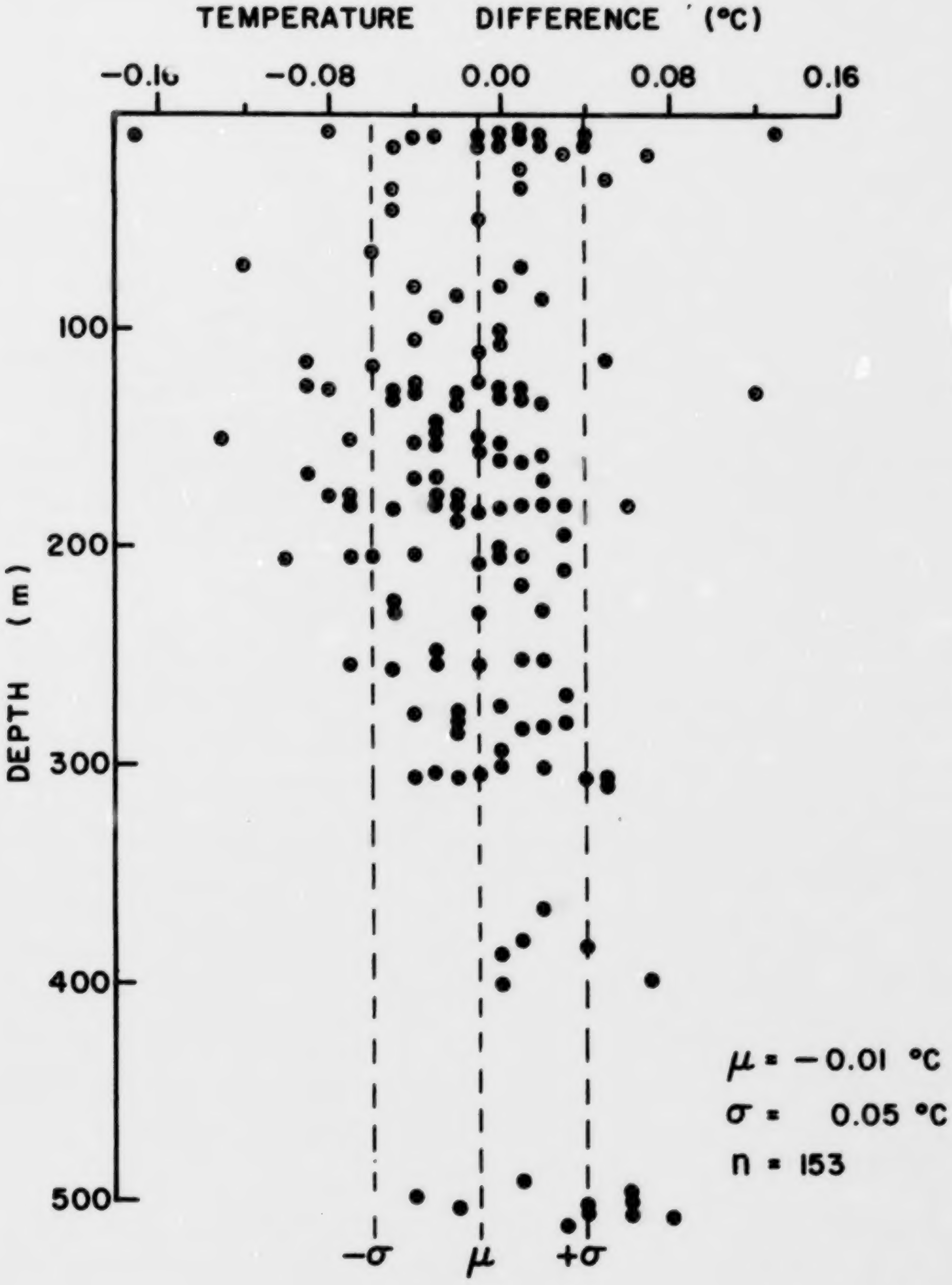

Figure 3 Temperature differences (Guildline CTD - reversing thermometers) for the period January 1977 to September 1981.

the mean. The 90% confidence interval for the mean is -0.02 to +0.00°C which indicates that the computed mean of -0.01 is not significantly different from a zero mean at 90% level of significance. The plot of temperature differences versus depth in Figure 3 indicates that there may be a bias with depth, however the large scatter in these data makes a depth dependent correction unwarranted. The statistics for the salinity differences (corrected CTD salinity - in situ bottle salinity) for different CTD probes and different conductivity sensors (169 samples) show no mean offset because the salinity data for each cruise have been corrected for the mean offset observed for that cruise (Figure 4). The mean salinity offsets for each cruise were in the range of 0.006 to 0.092 °/oo. The sample standard deviation of 0.013 °/oo indicates that the scatter of the salinity differences about the offsets is small. The plot of salinity differences versus depth in Figure 4 also indicates a possible bias with depth, however even if the depth dependence of the salinity difference is significant the correction would be small (~0.006 °/oo at 500m. The temperature and salinity differences plotted in Figures 3 and 4 are not exclusively from samples taken in Alberni Inlet, included are the calibration samples from the offshore stations (CODE), Nootka Sound Inlets and Knight Inlet.

An important aspect of these CTD data that is relevant to the discussion of data quality is related to the variable descent rate of the CTD probe caused by ship motion. In the protected waters of Alberni Inlet ship motion is not significant but in the outermost oceanic stations where sea swells are present (A10, A14, A15) ship motion is an important consideration. It has been observed that when the CTD probe slows down and reverses its descent, positive going spikes or loops appear in the salinity signal. These spikes have been observed to be as large as 0.15 °/oo in regions where the vertical gradients are large. Since we did not know how to correct the conductivity signal the data were discarded. The criterion used to discard the data was based on the observation that these salinity spikes or loops occurred whenever the probe descent rate approached zero. Consequently, whenever the descent rate was less than 0.5m s^{-1} the data were discarded. This descent rate cut-off criterion, though arbitrarily chosen, eliminated or reduced substantially this spiking problem. Unfortunately, it did not completely eliminate the salinity spikes.

Another problem area of the CTD data is in the near surface region (0 to 5m). Not only do most of the data spikes occur in this region but there are many instances when unrealistically large density inversions occur, and it is not obvious how they should be corrected. These inversions may result from problems with the CTD and/or the manner in which profiles were taken from the vessels. It has been noted that if the conductivity cell is not properly cleaned and soaked prior to each cast large conductivity readings

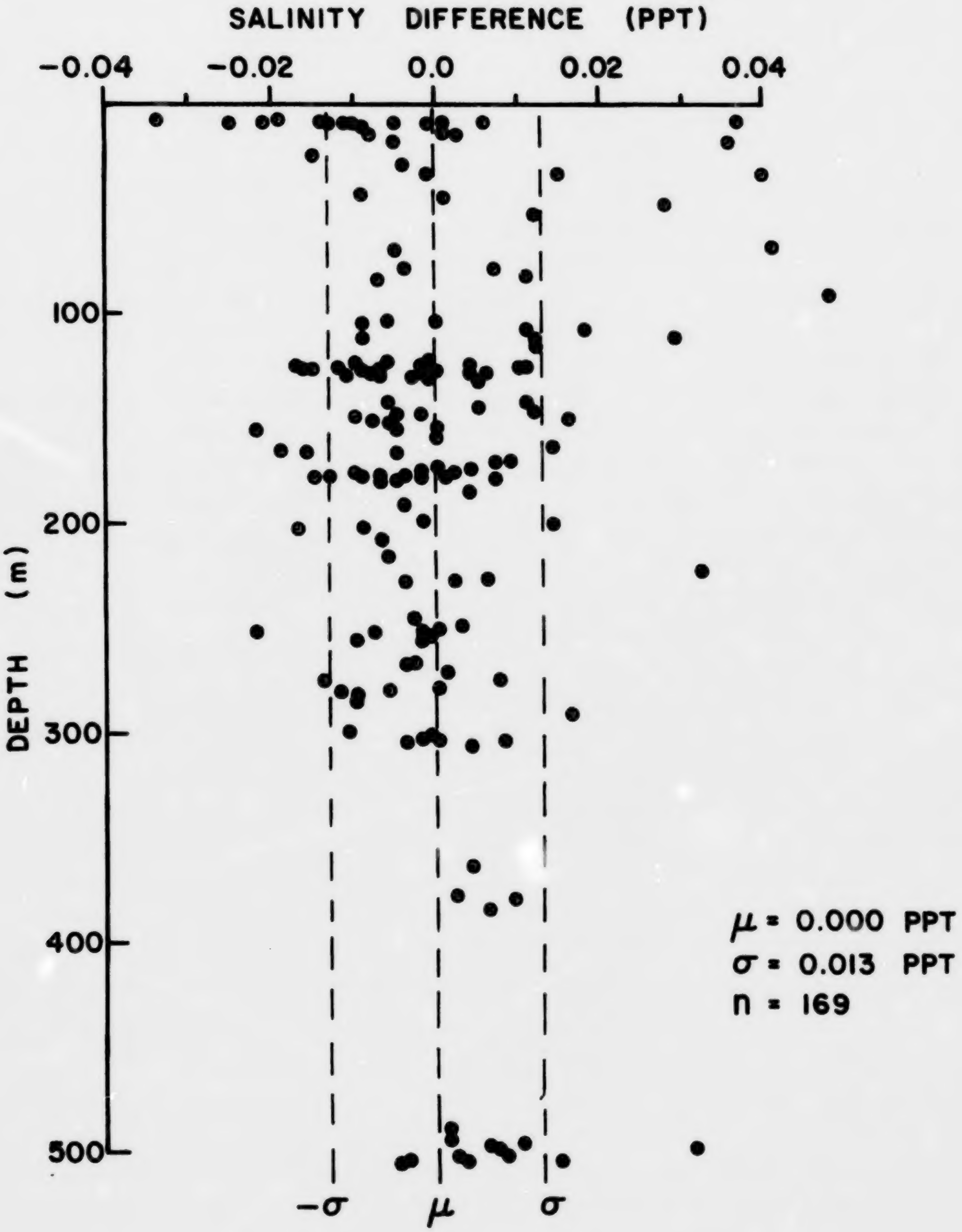

Figure 4 Salinity differences (corrected Guildline salinity - in situ bottle salinity) for the period from January 1977 to September 1981.

may occur at the start of the cast. Furthermore, during the cruises with the C.S.S Parizeau and C.S.S. Vector the profiles were obtained from the stern directly in the propeller wash from these vessels. The constant stirring of the stratified surface waters by the propellers and the presence of bubbles in the wash may also have contributed to the spurious readings. The listings of data have been blanked out near the surface for these profiles in which these near surface inversions were observed.

The statement of data accuracy is necessarily ambiguous. The manufacturer states accuracies of ±0.01 $^{o}/oo$ for equivalent salinity, ±0.01^{o}C for temperature and ±1.25 db for pressure. From the static, in situ calibrations the accuracy of the salinity is only slightly poorer at ±0.013 $^{o}/oo$. It is difficult to comment upon the accuracy of the temperature data using the static, in situ calibrations because the large standard deviation of the temperature differences. This large scatter is probably due to the limited accuracy ($\sim$0.02^{o}C) of the reversing thermometers. When the CTD probe is descending through regions of large vertical gradients, and especially when the descent rate is varying due to ship motion the accuracy of the data deteriorates considerably, and the accuracies stated by the manufacturer are optimistic. Data quality has been observed to be poor in the top few metres of a number of profiles, but in the vast majority of profiles no abnormalities are present. Consequently it is difficult to assign an accuracy to these measurements given the transient nature of the problem. The problem of time response mismatch between the temperature and conductivity sensor has been addressed by applying a correction to the temperature data. This correction has improved the data but it has not completely resolved the spiking problems probably because the time response mismatch between the sensors is a function of probe descent rate which usually is not constant. The problem associated with variable descent rate has been reduced by rejecting data where the descent rate was less than 0.5m s^{-1}. This has eliminated some obvious inversions in the data, but many still remain. The problem of dynamic calibration of the temperature and conductivity sensor still remains.

DISSOLVED OXYGEN DATA

Samples for dissolved oxygen content determination were obtained at standard depths using Niskin water sampling bottles. Samples were drawn, pickled and analyzed within 24 hours. A modified Winkler titration method (Strickland and Parsons 1965) was used to determine the dissolved oxygen content of the samples. Two titrations were done on each sample giving an accuracy of about ±0.02 ml/l under ideal laboratory conditions.

The dissolved oxygen content (in units of ml/l) data is presented together with the CTD data at the appropriate depths.

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UNESCO 1981b. Background papers and supporting data on the International Equation of State of Seawater 1980. UNESCO Tech. Pap. in Mar. Sci., No.38.

APPENDIX 1. Index to calibrated data files

```
CRUISE
 #
  FILE   STN     DATE      TIME   PASS   LATITUDE     LONGITUDE    MXDEP   DO
   #           YR/MO/DY   (PST)    #       (N)           (W)        (M)
-------------------------------------------------------------------------------
 1
     1   A0    79/01/30   0910      1   49 12.16    124 49.02        .0    0
     2   A1    79/01/30   0940      3   49  9.91    124 48.62      51.7    0
     3   A2    79/01/30   1030      5   49  7.15    124 48.80     101.3    4
     4   A3    79/01/30   1135      7   49  5.50    124 49.50     129.4    0
     5   A4    79/01/30   1205      9   49  2.70    124 51.11     103.3    0
     6   A5    79/01/30   1246     11   48 59.58    124 53.38     284.8    8
     7   A6    79/01/30   1425     13   48 58.78    124 57.80     356.4    0
     8   A7    79/01/30   1503     15   48 57.02    125  1.30     189.9    6
     9   A8    79/01/30   1629     17   48 53.78    125  3.05     182.9    0
    10   A9    79/01/30   1717     19   48 51.50    125  8.10     187.8    3
    11   A11   79/01/30   1833     21   48 57.72    125  4.48     110.0    0
    12   A12   79/01/30   1900     23   48 58.20    125  7.80     143.8    3
    13   A13   79/01/30   1948     25   48 54.15    125 12.95      81.1    0
    14   A14   79/01/30   2030     27   48 50.05    125 15.80      90.7    0
    15   A10   79/01/30   2102     29   48 48.20    125 14.40      98.2    0
    16   A10   79/02/04   0508    227   48 48.20    125 14.40      40.5    0
    17   A14   79/02/04   0527    229   48 50.05    125 15.80      40.8    0
    18   A13   79/02/04   0601    231   48 54.15    125 12.95     104.1    0
    19   A12   79/02/04   0640    233   48 58.20    125  7.80     103.4    3
    20   A11   79/02/04   0710    235   48 57.72    125  4.48      92.4    0
    21   A9    79/02/04   0803    237   48 51.50    125  8.10     149.1    4
    22   A8    79/02/04   0852    239   48 53.78    125  3.05     132.2    0
    23   A7    79/02/04   0922    241   48 57.02    125  1.30     151.0    5
    24   A6    79/02/04   1000    243   48 58.78    124 57.80     190.8    0
    25   A5    79/02/04   1030    245   48 59.58    124 53.38     170.8    7
    26   A4    79/02/04   1126    247   49  2.70    124 51.11     270.2    0
    27   A3    79/02/04   1153    249   49  5.50    124 49.50     278.0    0
    28   A2    79/02/04   1219    251   49  7.15    124 48.80     101.1    4
    29   A1    79/02/04   1255    253   49  9.91    124 48.62     125.1    0
    30   A0    79/02/04   1303    255   49 12.16    124 49.02     109.4    0
 2
    31   A1    79/03/08   0522     33   49  9.91    124 48.62      60.6    0
    32   A2    79/03/08   0553      5   49  7.15    124 48.80     103.5    4
    33   A3    79/03/08   0655      7   49  5.50    124 49.50     122.4    0
    34   A4    79/03/08   0723      9   49  2.70    124 51.11     109.5    0
    35   A5    79/03/08   0806     11   48 59.58    124 53.38     219.7    8
    36   A6    79/03/08   0935     13   48 58.78    124 57.80     323.0    0
    37   A7    79/03/08   1012     15   48 57.02    125  1.30     161.1    5
    38   A8    79/03/08   1110     17   48 53.78    125  3.05     161.1    0
    39   A9    79/03/08   1146     19   48 51.50    125  8.10     173.0    3
    40   A10   79/03/08   1235     21   48 48.20    125 14.40     123.3    0
    41   A11   79/03/08   1405     23   48 57.72    125  4.48      40.8    0
    42   A12   79/03/08   1426     25   48 58.20    125  7.80      51.8    2
    43   A13   79/03/08   1514     27   48 54.15    125 12.95      88.6    0
    44   A14   79/03/08   1545     29   48 50.05    125 15.80      85.6    3
 3
    45   A7    79/04/18   2009      1   48 57.02    125  1.30      90.6    5
    46   A8    79/04/18   2106      2   48 53.78    125  3.05     186.8    0
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CRUISE #	FILE #	STN	DATE YR/MO/DY	TIME (PST)	PASS #	LATITUDE (N)	LONGITUDE (W)	MXDEP (M)	DO
	47	A9	79/04/18	2148	5	48 51.50	125 8.10	172.7	3
	48	A10	79/04/18	2238	7	48 48.20	125 14.40	119.1	0
	49	A14	79/04/18	2303	9	48 50.05	125 15.80	37.7	3
	50	A13	79/04/18	2354	11	48 54.15	125 12.95	96.6	0
	51	A12	79/04/19	0042	13	48 58.20	125 7.80	99.4	3
	52	A11	79/04/19	0125	15	48 57.72	125 4.48	92.2	0
	53	A7	79/04/19	0158	17	48 57.02	125 1.30	171.0	1
	54	A6	79/04/19	0239	19	48 58.78	124 57.80	189.5	0
	55	A5	79/04/19	0328	21	48 59.58	124 53.38	173.8	8
	56	A4	79/04/19	0453	23	49 2.70	124 51.11	290.1	0
	57	A3	79/04/19	0543	25	49 5.50	124 49.50	288.1	0
	58	A2	79/04/19	0609	28	49 7.15	124 48.80	120.0	4
	59	A1	79/04/19	0701	29	49 9.91	124 48.62	139.3	0
	60	A0	79/04/19	0727	31	49 12.16	124 49.02	110.4	0
4									
	61	A0	79/05/20	1404	21	49 12.16	124 49.02	60.7	0
	62	A1	79/05/20	1431	23	49 9.91	124 48.62	37.5	0
	63	A2	79/05/20	1511	25	49 7.15	124 48.80	92.6	4
	64	A3	79/05/20	1601	27	49 5.50	124 49.50	132.1	0
	65	A4	79/05/20	1640	30	49 2.70	124 51.11	101.4	0
	66	A5	79/05/20	1728	32	48 59.58	124 53.38	276.1	8
	67	A6	79/05/20	1841	34	48 58.78	124 57.80	338.9	0
	68	A7	79/05/20	1910	36	48 57.02	125 1.30	184.9	6
	69	A11	79/05/20	2000	37	48 57.72	125 4.48	221.6	0
	70	A12	79/05/20	2030	39	48 58.20	125 7.80	149.1	2
	71	A13	79/05/20	2125	41	48 54.15	125 12.95	78.5	0
	72	A14	79/05/20	2136	43	48 50.05	125 15.80	90.3	2
	73	A10	79/05/20	2230	45	48 48.20	125 14.40	80.4	0
	74	A9	79/05/21	2317	47	48 51.50	125 8.10	74.6	4
	75	A8	79/05/21	0015	49	48 53.78	125 3.05	123.1	0
	76	A7	79/05/20	0054	51	48 57.02	125 1.30	151.8	0
5									
	77	A1	79/06/21	0745	3	49 9.91	124 48.62	215.6	0
	78	A2	79/06/21	0829	5	49 7.15	124 48.80	110.4	4
	79	A3	79/06/21	0852	7	49 5.50	124 49.50	129.3	0
	80	A4	79/06/21	0920	9	49 2.70	124 51.11	109.3	0
	81	A5	79/06/21	1030	11	48 59.58	124 53.38	290.0	9
	82	A6	79/06/21	1107	13	48 58.78	124 57.80	325.9	0
	83	A7	79/06/21	1201	15	48 57.02	125 1.30	164.9	6
	84	A11	79/06/21	1242	17	48 57.72	125 4.48	239.4	0
	85	A12	79/06/21	1333	19	48 58.20	125 7.80	159.1	3
	86	A13	79/06/21	1421	21	48 54.15	125 12.95	90.4	0
	87	A14	79/06/21	1509	23	48 50.05	125 15.80	90.3	3
	88	A10	79/06/21	1539	25	48 48.20	125 14.40	106.3	0
	89	A9	79/06/21	1635	27	48 51.50	125 8.10	41.6	4
	90	A8	79/06/21	1713	29	48 53.78	125 3.05	130.1	0
	91	A7	79/06/21	1750	31	48 57.02	125 1.30	175.6	0
6									
	92	A0	79/08/22	1248	0	49 12.16	124 49.02	222.6	0

CRUISE #	FILE #	STN	DATE YR/MO/DY	TIME (PST)	PASS #	LATITUDE (N)	LONGITUDE (W)	MXDEP (M)	DO
	93	A1	79/08/22	1343	0	49 9.91	124 48.62	39.6	0
	94	A2	79/08/22	1502	0	49 7.15	124 48.80	100.4	4
	95	A3	79/08/22	1534	0	49 5.50	124 49.50	124.9	0
	96	A4	79/08/22	1612	0	49 2.70	124 51.11	98.2	0
	97	A5	79/08/22	1707	0	48 59.58	124 53.38	247.1	7
	98	A6	79/08/22	1805	0	48 58.78	124 57.80	247.4	0
	99	A7	79/08/22	1841	0	48 57.02	125 1.30	175.8	6
	100	A7	79/08/23	0053	0	48 57.02	125 1.30	192.5	0
	101	A8	79/08/23	0009	0	48 53.78	125 3.05	199.7	0
	102	A9	79/08/22	2320	0	48 51.50	125 8.10	164.0	0
	103	A10	79/08/22	2230	0	48 48.20	125 14.40	122.9	0
	104	A11	79/08/22	1923	0	48 57.72	125 4.48	116.4	0
	105	A12	79/08/22	2001	0	48 58.20	125 7.80	149.8	3
	106	A13	79/08/22	2104	0	48 54.15	125 12.95	83.6	0
	107	A14	79/08/22	2153	0	48 50.05	125 15.80	87.2	3
7									
	108	A0	79/10/04	1131	1	49 12.16	124 49.02	99.1	0
	109	A1	79/10/04	1159	3	49 9.91	124 48.62	54.8	0
	110	A2	79/10/04	1229	5	49 7.15	124 48.80	103.4	4
	111	A3	79/10/04	1315	7	49 5.50	124 49.50	135.0	0
	112	A4	79/10/04	1346	9	49 2.70	124 51.11	111.3	0
	113	A5	79/10/04	0143	11	48 59.58	124 53.38	285.0	8
	114	A6	79/10/04	0000	13	48 58.78	124 57.80	303.9	0
	115	A7	79/10/04	1634	15	48 57.02	125 1.30	185.8	6
	116	A11	79/10/04	1753	17	48 57.72	125 4.48	228.2	0
	117	A12	79/10/04	1831	19	48 58.20	125 7.80	134.1	2
	118	A13	79/10/04	1925	21	48 54.15	125 12.95	91.2	0
	119	A14	79/10/04	1957	23	48 50.05	125 15.80	90.3	2
	120	A10	79/10/04	2037	25	48 48.20	125 14.40	88.3	0
	121	A9	79/10/04	2117	27	48 51.50	125 8.10	74.7	3
	122	A8	79/10/04	2204	29	48 53.78	125 3.05	122.4	0
	123	A7	79/10/04	2239	31	48 57.02	125 1.30	165.9	0
	124	A5	79/10/05	1430	1	48 59.58	124 53.38	219.5	0
	125	A5	79/10/05	1453	3	48 59.58	124 53.38	198.8	0
8									
	126	A0	79/11/28	1048	1	49 12.16	124 49.02	197.7	0
	127	A1	79/11/28	1116	3	49 9.91	124 48.62	49.6	0
	128	A2	79/11/28	1203	5	49 7.15	124 48.80	92.4	4
	129	A3	79/11/28	1255	7	49 5.50	124 49.50	126.4	0
	130	A4	79/11/28	1339	9	49 2.70	124 51.11	104.6	0
	131	A5	79/11/28	1421	11	48 59.58	124 53.38	181.0	8
	132	A6	79/11/28	1522	13	48 58.78	124 57.80	300.2	0
	133	A7	79/11/28	1557	15	48 57.02	125 1.30	175.7	6
	134	A11	79/11/28	1647	17	48 57.72	125 4.48	203.6	0
	135	A12	79/11/28	1719	19	48 58.20	125 7.80	70.7	2
	136	A13	79/11/28	1813	21	48 54.15	125 12.95	83.4	0
	137	A14	79/11/28	1847	22	48 50.05	125 15.80	92.3	2
	138	A10	79/11/28	1745	25	48 48.20	125 14.40	82.4	0
	139	A9	79/11/28	2023	27	48 51.50	125 8.10	74.5	3

CRUISE #	FILE #	STN	DATE YR/MO/DY	TIME (PST)	PASS #	LATITUDE (N)	LONGITUDE (W)	MXDEP (M)	DO
	140	A8	79/11/28	2107	29	48 53.78	125 3.05	110.1	0
9									
	141	A7	80/02/08	1503	42	48 57.02	125 1.30	144.9	6
	142	A8	80/02/08	1559	44	48 53.78	125 3.05	214.7	0
	143	A9	80/02/08	1635	46	48 51.50	125 8.10	158.0	3
	144	A10	80/02/08	1721	48	48 48.20	125 14.40	88.5	0
	145	A14	80/02/08	1742	50	48 50.05	125 15.80	41.7	3
	146	A13	80/02/08	1825	52	48 54.15	125 12.95	91.2	0
	147	A12	80/02/08	1912	54	48 58.20	125 7.80	98.6	3
	148	A11	80/02/08	1951	56	48 57.72	125 4.48	93.5	0
	149	A7	80/02/08	2022	58	48 57.02	125 1.30	85.3	0
	150	A6	80/02/08	2107	60	48 58.78	124 57.80	224.6	0
	151	A5	80/02/08	2155	62	48 59.58	124 53.38	160.8	8
	152	A4	80/02/08	2320	64	49 2.70	124 51.11	312.1	0
	153	A3	80/02/08	0005	66	49 5.50	124 49.50	288.0	0
	154	A2	80/02/09	0034	68	49 7.15	124 48.80	110.4	4
	155	A1	80/02/09	0123	70	49 9.91	124 48.62	127.2	3
	156	A0	80/02/09	0230	72	49 12.16	124 49.02	107.2	0
2									
	157	A7	80/02/10	1933	1	48 57.02	125 1.30	54.9	0
10									
	158	A0	80/03/26	0810	27	49 12.16	124 49.02	182.1	0
	159	A1	80/03/26	0829	29	49 9.91	124 48.62	55.4	0
	160	A2	80/03/26	0904	31	49 7.15	124 48.80	107.5	4
	161	A3	80/03/26	0939	33	49 5.50	124 49.50	136.2	0
	162	A0	80/03/26	1907	36	49 12.16	124 49.02	107.3	0
	163	A1	80/03/26	1930	37	49 9.91	124 48.62	54.4	0
	164	A2	80/03/26	2010	39	49 7.15	124 48.80	99.5	4
	165	A3	80/03/26	2048	42	49 5.50	124 49.50	130.4	0
	166	A4	80/03/26	2116	43	49 2.70	124 51.11	109.0	0
	167	A5	80/03/26	2224	45	48 59.58	124 53.38	280.1	9
	168	A6	80/03/26	2257	46	48 58.78	124 57.80	328.8	0
	169	A7	80/03/26	2327	50	48 57.02	125 1.30	169.8	6
	170	A11	80/03/27	0013	52	48 57.72	125 4.48	215.6	0
	171	A12	80/03/27	0042	54	48 58.20	125 7.80	145.6	3
	172	A13	80/03/27	0131	55	48 54.15	125 12.95	85.5	0
	173	A14	80/03/27	0205	57	48 50.05	125 15.80	92.3	2
	174	A10	80/03/27	0238	59	48 48.20	125 14.40	85.5	0
	175	A9	80/03/27	0325	61	48 51.50	125 8.10	74.6	4
	176	A8	80/03/27	0415	63	48 53.78	125 3.05	123.3	0
	177	A7	80/03/27	0503	65	48 57.02	125 1.30	160.3	0
	178	CYCLE	80/03/27	0001	1	1 2.30	4 5.60	246.5	0
11									
	179	A7	80/04/23	1114	39	48 57.02	125 1.30	82.5	6
	180	A8	80/04/23	2113	41	48 53.78	125 3.05	218.6	0
	181	A9	80/04/23	1251	43	48 51.50	125 8.10	155.2	2
	182	A10	80/04/23	1346	45	48 48.20	125 14.40	91.6	0
	183	A14	80/04/23	1410	47	48 50.05	125 15.80	40.8	3
	184	A13	80/04/23	1449	49	48 54.15	125 12.95	94.1	0

CRUISE #	FILE #	STN	DATE YR/MO/DY	TIME (PST)	PASS #	LATITUDE (N)	LONGITUDE (W)	MXDEP (M)	DO
	185	A12	80/04/23	1527	51	48 58.20	125 7.80	102.6	3
	186	A11	80/04/23	1601	53	48 57.72	125 4.48	95.2	0
	187	A7	80/04/23	1627	55	48 57.02	125 1.30	94.5	0
	188	A6	80/04/23	1701	58	48 58.78	124 57.80	211.6	0
	189	A5	80/04/23	1736	60	48 59.58	124 53.38	167.8	8
	190	A4	80/04/23	1851	61	49 2.70	124 51.11	310.0	0
	191	A3	80/04/23	1930	63	49 5.50	124 49.50	273.4	0
	192	A2	80/04/23	2005	66	49 7.15	124 48.80	95.4	4
	193	A1	80/04/23	2045	68	49 9.91	124 48.62	133.4	3
	194	A0	80/04/23	2111	69	49 12.16	124 49.02	98.3	0
12									
	195	A0	80/06/13	1209	74	49 12.16	124 49.02	54.5	0
	196	A1	80/06/13	1326	78	49 9.91	124 48.62	58.4	3
	197	A2	80/06/13	1425	82	49 7.15	124 48.80	113.3	4
	198	A3	80/06/13	1538	85	49 5.50	124 49.50	138.1	0
	199	A4	80/06/13	1615	87	49 2.70	124 51.11	102.5	0
	200	A5	80/06/13	1706	89	48 59.58	124 53.38	281.3	7
	201	A6	80/06/13	1807	91	48 58.78	124 57.80	320.9	0
	202	A7	80/06/13	1850	93	48 57.02	125 1.30	176.7	6
	203	A11	80/06/13	1936	95	48 57.72	125 4.48	212.7	0
	204	A12	80/06/13	2010	97	48 58.20	125 7.80	166.9	3
	205	A13	80/06/13	2105	99	48 54.15	125 12.95	93.4	0
	206	A14	80/06/13	2141	101	48 50.05	125 15.80	103.4	3
	207	A10	80/06/13	2212	103	48 48.20	125 14.40	99.3	0
	208	A9	80/06/13	2256	106	48 51.50	125 8.10	44.5	3
	209	A8	80/06/13	2342	108	48 53.78	125 3.05	92.5	0
	210	A7	80/06/14	0042	111	48 57.02	125 1.30	178.5	0
12A									
	211	A0	80/07/25	0815	0	49 12.16	124 49.02	199.4	0
	212	A1	80/07/25	0852	0	49 9.91	124 48.62	51.3	4
	213	A2	80/07/25	0953	0	49 7.15	124 48.80	100.0	3
	214	A3	80/07/25	1039	0	49 5.50	124 49.50	84.7	0
	215	A6	80/07/25	1258	0	48 58.78	124 57.80	62.7	0
	216	A11	80/07/25	1451	0	48 57.72	125 4.48	171.9	0
	217	A7	80/07/25	1346	0	48 57.02	125 1.30	126.2	7
	218	A12	80/07/25	1526	0	48 58.20	125 7.80	195.8	4
	219	A13	80/07/25	1618	0	48 54.15	125 12.95	78.5	0
	220	A14	80/07/25	1714	0	48 50.05	125 15.80	83.5	4
	221	A10	80/07/25	1743	0	48 48.20	125 14.40	99.4	0
	222	A9	80/07/25	1830	0	48 51.50	125 8.10	53.7	5
13									
	223	A0	80/08/12	1236	1	49 12.16	124 49.02	122.3	0
	224	A1	80/08/12	1302	3	49 9.91	124 48.62	187.9	3
	225	A2	80/08/12	1358	5	49 7.15	124 48.80	107.6	4
	226	A3	80/08/12	1452	7	49 5.50	124 49.50	136.9	0
	227	A4	80/08/12	1516	9	49 2.70	124 51.11	100.4	0
	228	A5	80/08/12	1606	11	48 59.58	124 53.38	188.5	9
	229	A6	80/08/12	1709	13	48 58.78	124 57.80	346.8	0
	230	A7	80/08/12	1743	15	48 57.02	125 1.30	191.8	6

CRUISE #	FILE #	STN	DATE YR/MO/DY	TIME (PST)	PASS #	LATITUDE (N)	LONGITUDE (W)	MXDEP (M)	DO
	231	A11	80/08/12	1824	17	48 57.72	125 4.48	219.6	0
	232	A12	80/08/12	1855	19	48 58.20	125 7.80	148.2	2
	233	A13	80/08/12	1943	21	48 54.15	125 12.95	86.4	0
	234	A14	80/08/12	2015	23	48 50.05	125 15.80	90.2	2
	235	A10	80/08/12	2051	25	48 48.20	125 14.40	90.6	0
	236	A9	80/08/12	2133	27	48 51.50	125 8.10	37.5	4
	237	A8	80/08/12	2219	29	48 53.78	125 3.05	136.2	0
14									
	238	A7	80/09/19	1853	1	48 57.02	125 1.30	160.0	0
	239	A8	80/09/19	1937	3	48 53.78	125 3.05	207.7	0
	240	A9	80/09/19	2028	5	48 51.50	125 8.10	164.9	3
	241	A10	80/09/19	2125	7	48 48.20	125 14.40	125.5	0
	242	A14	80/09/19	2148	9	48 50.05	125 15.80	38.5	2
	243	A13	80/09/19	2033	11	48 54.15	125 12.95	89.4	0
	244	A12	80/09/19	2321	13	48 58.20	125 7.80	93.4	3
	245	A11	80/09/19	2359	15	48 57.72	125 4.48	88.2	0
	246	A7	80/09/20	0034	17	48 57.02	125 1.30	124.0	6
	247	A6	80/09/20	0132	19	48 58.78	124 57.80	243.3	0
	248	A5	80/09/20	0212	21	48 59.58	124 53.38	164.0	8
	249	A4	80/09/20	0325	23	49 2.70	124 51.11	317.7	0
	250	A3	80/09/20	0412	25	49 5.50	124 49.50	271.3	0
	251	A2	80/09/20	0443	27	49 7.15	124 48.80	99.5	4
	252	A1	80/09/20	0530	29	49 9.91	124 48.62	126.3	3
	253	A0	80/09/20	0500	31	49 12.16	124 49.02	101.5	0
15									
	254	A0	80/10/23	1412	1	49 12.16	124 49.02	43.9	0
	255	A1	80/10/23	1438	3	49 9.91	124 48.62	39.8	0
	256	A2	80/10/23	1505	5	49 7.15	124 48.80	103.5	5
	257	A3	80/10/23	1600	7	49 5.50	124 49.50	125.0	0
	258	A4	80/10/23	1624	9	49 2.70	124 51.11	99.5	0
	259	A5	80/10/23	1713	11	48 59.58	124 53.38	204.3	9
	260	A7	80/10/23	1739	13	48 57.02	125 1.30	303.0	6
	261	A12	80/10/23	1843	15	48 58.20	125 7.80	301.2	3
	262	A14	80/10/23	1956	17	48 50.05	125 15.80	95.5	3
	263	A7	80/10/22	0917	1	48 57.02	125 1.30	90.5	0
16									
	264	A7	80/11/24	2228	1	48 57.02	125 1.30	235.4	0
	265	A8	80/11/24	2301	3	48 53.78	125 3.05	181.8	0
	266	A9	80/11/24	2343	5	48 51.50	125 8.10	174.9	4
	267	A10	80/11/25	0044	7	48 48.20	125 14.40	126.0	0
	268	A14	80/11/25	0106	8	48 50.05	125 15.80	49.7	3
	269	A13	80/11/25	0144	11	48 54.15	125 12.95	99.3	0
	270	A12	80/11/25	0223	13	48 58.20	125 7.80	105.4	3
	271	A11	80/11/25	0258	15	48 57.72	125 4.48	102.6	0
	272	A6	80/11/25	0341	17	48 58.78	124 57.80	114.4	6
	273	A7	80/11/25	0515	19	48 57.02	125 1.30	177.7	6
	274	A6	80/11/25	0604	21	48 58.78	124 57.80	194.0	0
	275	A5	80/11/25	0646	23	48 59.58	124 53.38	169.0	7
	276	A4	80/11/25	0753	25	49 2.70	124 51.11	349.8	0

CRUISE #	FILE #	STN	DATE YR/MO/DY	TIME (PST)	PASS #	LATITUDE (N)	LONGITUDE (W)	MXDEP (M)	DO
	277	A3	80/11/25	0827	27	49 5.50	124 49.50	226.7	0
	278	A2	80/11/25	8477	29	49 7.15	124 48.80	121.5	4
	279	A1	80/11/25	0931	31	49 9.91	124 48.62	143.1	3
	280	A0	80/11/25	1006	33	49 12.16	124 49.02	114.5	0
17									
	281	A7	81/01/07	0459	20	48 57.02	125 1.30	39.9	0
	282	A8	81/01/07	0547	21	48 53.78	125 3.05	213.8	0
	283	A9	81/01/07	0630	23	48 51.50	125 8.10	178.7	4
	284	A10	81/01/07	0730	25	48 48.20	125 14.40	130.4	0
	285	A14	81/01/07	0758	27	48 50.05	125 15.80	44.9	3
	286	A13	81/01/07	0841	29	48 54.15	125 12.95	101.4	0
	287	A12	81/01/07	0919	31	48 58.20	125 7.80	108.3	3
	288	A11	81/01/07	0952	33	48 57.72	125 4.48	98.5	0
	289	A7	81/01/07	1018	35	48 57.02	125 1.30	133.4	6
	290	A6	81/01/07	1101	37	48 58.78	124 57.80	238.6	0
	291	A5	81/01/07	1137	39	48 59.58	124 53.38	182.1	9
	292	A4	81/01/07	1237	41	49 2.70	124 51.11	361.7	0
	293	A3	81/01/07	1306	43	49 5.50	124 49.50	224.8	0
	294	A2	81/01/07	1353	45	49 7.15	124 48.80	122.3	4
	295	A1	81/01/07	1435	47	49 9.91	124 48.62	141.2	3
	296	A0	81/01/07	1504	49	49 12.16	124 49.02	114.6	0
18									
	297	A0	81/02/05	1802	39	49 12.16	124 49.02	38.6	0
	298	A1	81/02/05	1828	31	49 9.91	124 48.62	62.8	3
	299	A2	81/02/05	1904	43	49 7.15	124 48.80	112.1	4
	300	A3	81/02/05	1946	45	49 5.50	124 49.50	127.3	0
	301	A4	81/02/05	2021	47	49 2.70	124 51.11	117.4	0
	302	A5	81/02/05	2120	49	48 59.58	124 53.38	293.1	7
	303	A6	81/02/05	2230	51	48 58.78	124 57.80	305.1	0
	304	A7	81/02/05	2309	53	48 57.02	125 1.30	175.0	7
	305	A11	81/02/06	0016	55	48 57.72	125 4.48	234.7	0
	306	A12	81/02/06	0056	57	48 58.20	125 7.80	113.2	3
	307	A13	81/02/06	0155	59	48 54.15	125 12.95	99.5	0
	308	A14	81/02/06	0229	61	48 50.05	125 15.80	109.2	3
	309	A10	81/02/06	0329	63	48 48.20	125 14.40	101.6	0
	310	A9	81/02/06	0438	65	48 51.50	125 8.10	42.9	4
	311	A8	81/02/06	0532	67	48 53.78	125 3.05	113.4	0
	312	A8	81/02/09	0009	1	48 53.78	125 3.05	148.1	0
	313	A9	81/02/09	0115	3	48 51.50	125 8.10	178.2	4
	314	A10	81/02/09	0211	5	48 48.20	125 14.40	142.1	0
	315	A15	81/02/09	0249	7	48 44.80	125 21.60	44.7	0
	316	A14	81/02/09	0347	9	48 50.05	125 15.80	100.3	3
	317	A13	81/02/09	0434	11	48 54.15	125 12.95	96.4	0
	318	A12	81/02/09	0516	13	48 58.20	125 7.80	110.2	3
	319	A11	81/02/09	0559	15	48 57.72	125 4.48	101.3	0
	320	A7	81/02/09	0635	17	48 57.02	125 1.30	93.2	6
	321	A6	81/02/09	0728	19	48 58.78	124 57.80	244.7	0
	322	A5	81/02/09	0810	21	48 59.58	124 53.38	184.7	9
	323	A4	81/02/09	0914	23	49 2.70	124 51.11	354.5	0

CRUISE
#

FILE #	STN	DATE YR/MO/DY	TIME (PST)	PASS #	LATITUDE (N)	LONGITUDE (W)	MXDEP (M)	DO
324	A3	81/02/09	0952	25	49 5.50	124 49.50	285.1	0
325	A2	81/02/09	1014	27	49 7.15	124 48.80	100.6	4
326	A1	81/02/09	1057	29	49 9.91	124 48.62	138.4	3
327	A0	81/02/09	1121	31	49 12.16	124 49.02	113.5	0
328	A6	81/02/09	1714	33	48 58.78	124 57.80	61.5	0
329	A7	81/02/09	1748	35	48 57.02	125 1.30	186.7	0
330	A11	81/02/09	1816	37	48 57.72	125 4.48	226.3	0
331	A12	81/02/09	1840	39	48 58.20	125 7.80	100.4	0
332	A13	81/02/09	1921	41	48 54.15	125 12.95	90.6	0
333	A14	81/02/09	1957	43	48 50.05	125 15.80	92.7	0
334	A15	81/02/09	2054	45	48 44.80	125 21.60	86.5	0
335	A6	81/02/09	2308	47	48 58.78	124 57.80	95.4	0
336	A7	81/02/09	2341	49	48 57.02	125 1.30	177.6	0
337	A11	81/02/10	0013	51	48 57.72	125 4.48	236.5	0
338	A12	81/02/10	0046	53	48 58.20	125 7.80	144.3	0
339	A13	81/02/10	0127	55	48 54.15	125 12.95	98.5	0
340	A14	81/02/10	0203	57	48 50.05	125 15.80	101.3	0
341	A15	81/02/10	0301	59	48 44.80	125 21.60	103.4	0
342	A6	81/02/10	0520	61	48 58.78	124 57.80	98.7	0
343	A7	81/02/10	0555	63	48 57.02	125 1.30	183.9	0
344	A11	81/02/10	0621	65	48 57.72	125 4.48	233.4	0
345	A12	81/02/10	0645	67	48 58.20	125 7.80	87.4	0
346	A13	81/02/10	0725	69	48 54.15	125 12.95	87.3	0
347	A14	81/02/10	0800	71	48 50.05	125 15.80	97.5	0
348	A15	81/02/10	0853	73	48 44.80	125 21.60	92.3	0
349	A6	81/02/10	1121	75	48 58.78	124 57.80	92.6	0
350	A7	81/02/10	1158	77	48 57.02	125 1.30	175.8	0
351	A11	81/02/10	1229	79	48 57.72	125 4.48	235.3	0
352	A12	81/02/10	1258	81	48 58.20	125 7.80	142.0	0
353	A13	81/02/10	1340	83	48 54.15	125 12.95	98.7	0
354	A14	81/02/10	1422	87	48 50.05	125 15.80	100.6	0
355	A15	81/02/10	1519	89	48 44.80	125 21.60	100.6	0
356	A6	81/02/10	1740	91	48 58.78	124 57.80	100.3	0
357	A7	81/02/10	1813	93	48 57.02	125 1.30	166.3	0
358	A11	81/02/10	1836	95	48 57.72	125 4.48	180.8	0
359	A12	81/02/10	1858	97	48 58.20	125 7.80	107.2	0
360	A13	81/02/10	1940	99	48 54.15	125 12.95	90.6	0
361	A14	81/02/10	2015	101	48 50.05	125 15.80	97.1	0
362	A15	81/02/10	2112	103	48 44.80	125 21.60	97.4	0
363	A6	81/02/10	2333	105	48 58.78	124 57.80	94.3	0
364	A7	81/02/11	0001	107	48 57.02	125 1.30	176.9	0
365	A11	81/02/11	0026	109	48 57.72	125 4.48	223.6	0
366	A12	81/02/11	0051	111	48 58.20	125 7.80	97.7	0
367	A13	81/02/11	0131	113	48 54.15	125 12.95	99.5	0
368	A14	81/02/11	0207	115	48 50.05	125 15.80	104.6	0
369	A15	81/02/11	0302	117	48 44.80	125 21.60	101.5	0
370	A6	81/02/11	0527	119	48 58.78	124 57.80	100.3	0
371	A7	81/02/11	0605	121	48 57.02	125 1.30	170.8	0
372	A11	81/02/11	0634	123	48 57.72	125 4.48	238.4	0

CRUISE #	FILE #	STN	DATE YR/MO/DY	TIME (PST)	PASS #	LATITUDE (N)	LONGITUDE (W)	MXDEP (M)	DO
	373	A12	81/02/11	0656	125	48 58.20	125 7.80	128.3	0
	374	A13	81/02/11	0736	127	48 54.15	125 12.95	89.7	0
	375	A14	81/02/11	0807	129	48 50.05	125 15.80	92.6	0
	376	A15	81/02/11	0904	131	48 44.80	125 21.60	94.3	0
	377	A6	81/02/11	1122	133	48 58.78	124 57.80	93.4	0
	378	A7	81/02/11	1153	135	48 57.02	125 1.30	175.7	0
	379	A11	81/02/11	1217	137	48 57.72	125 4.48	219.8	0
	380	A12	81/02/11	1236	139	48 58.20	125 7.80	105.5	0
	381	A13	81/02/11	1316	141	48 54.15	125 12.95	100.2	0
	382	A14	81/02/11	1350	143	48 50.05	125 15.80	109.3	0
	383	A15	81/02/11	1453	145	48 44.80	125 21.60	99.1	0
	384	A0	81/02/11	1814	147	49 12.16	124 49.02	102.3	0
	385	A1	81/02/11	1840	149	49 9.91	124 48.62	53.8	3
	386	A2	81/02/11	1920	151	49 7.15	124 48.80	101.2	4
	387	A3	81/02/11	2000	153	49 5.50	124 49.50	128.0	0
	388	A4	81/02/11	2022	155	49 2.70	124 51.11	100.6	0
	389	A5	81/02/11	2101	157	48 59.58	124 53.38	283.0	9
	390	A6	81/02/11	2201	159	48 58.78	124 57.80	341.5	0
	391	A7	81/02/11	2232	161	48 57.02	125 1.30	184.5	7
	392	A11	81/02/11	2325	163	48 57.72	125 4.48	232.7	0
	393	A12	81/02/11	2357	165	48 58.20	125 7.80	93.6	3
	394	A13	81/02/12	0039	167	48 54.15	125 12.95	93.2	0
	395	A14	81/02/12	0110	169	48 50.05	125 15.80	107.6	3
	396	A15	81/02/12	0205	171	48 44.80	125 21.60	99.1	0
	397	A10	81/02/12	0245	173	48 48.20	125 14.40	98.6	0
	398	A9	81/02/12	0328	175	48 51.50	125 8.10	41.4	4
	399	A8	81/02/12	0424	177	48 53.78	125 3.05	136.9	0
	400	A7	81/02/12	0504	179	48 57.02	125 1.30	159.1	0
19									
	401	A8	81/03/11	0603	21	48 53.78	125 3.05	232.6	0
	402	A9	81/03/11	0645	23	48 51.50	125 8.10	167.1	4
	403	A10	81/03/11	0738	25	48 48.20	125 14.40	118.4	0
	404	A15	81/03/11	0811	27	48 44.80	125 21.60	40.8	0
	405	A14	81/03/11	0905	29	48 50.05	125 15.80	99.2	3
	406	A13	81/03/11	0948	31	48 54.15	125 12.95	99.6	0
	407	A12	81/03/11	1028	33	48 58.20	125 7.80	103.3	3
	408	A11	81/03/11	1100	35	48 57.72	125 4.48	96.5	0
	409	A7	81/03/11	1123	37	48 57.02	125 1.30	90.2	6
	410	A6	81/03/11	1208	39	48 58.78	124 57.80	243.4	0
	411	A5	81/03/11	1248	41	48 59.58	124 53.38	188.8	8
	412	A4	81/03/11	1351	43	49 2.70	124 51.11	296.1	0
	413	A3	81/03/11	1423	45	49 5.50	124 49.50	205.8	0
	414	A2	81/03/11	1444	47	49 7.15	124 48.80	118.6	4
	415	A1	81/03/11	1531	49	49 9.91	124 48.62	142.3	3
	416	A0	81/03/11	1602	51	49 12.16	124 49.02	114.6	0
20									
	417	A0	81/04/22	0946	1	49 12.16	124 49.02	38.7	0
	418	A1	81/04/22	1013	3	49 9.91	124 48.62	53.5	3
	419	A2	81/04/22	1054	5	49 7.15	124 48.80	108.4	4

CRUISE #	FILE #	STN	DATE YR/MO/DY	TIME (PST)	PASS #	LATITUDE (N)	LONGITUDE (W)	MXDEP (M)	DO
	420	A3	81/04/22	1129	7	49 5.50	124 49.50	127.5	0
	421	A4	81/04/22	1202	9	49 2.70	124 51.11	104.3	0
	422	A5	81/04/22	1254	11	48 59.58	124 53.38	292.0	9
	423	A6	81/04/22	1352	13	48 58.78	124 57.80	331.8	0
	424	A7	81/04/22	1437	15	48 57.02	125 1.30	178.0	6
	425	A11	81/04/22	1520	17	48 57.72	125 4.48	229.7	0
	426	A12	81/04/22	1548	19	48 58.20	125 7.80	125.9	3
	427	A13	81/04/22	1640	21	48 54.15	125 12.95	93.6	0
	428	A14	81/04/22	1718	23	48 50.05	125 15.80	101.4	3
	429	A15	81/04/22	1834	25	48 44.80	125 21.60	99.4	0
	430	A10	81/04/22	1926	27	48 48.20	125 14.40	96.5	0
	431	A9	81/04/22	2015	29	48 51.50	125 8.10	43.8	4
	432	A8	81/04/22	2118	31	48 53.78	125 3.05	128.3	0
21									
	433	A0	81/06/07	1352	0	49 12.16	124 49.02	169.2	0
	434	A1	81/06/07	1427	0	49 9.91	124 48.62	53.8	3
	435	A2	81/06/07	1500	0	49 7.15	124 48.80	102.5	4
	436	A3	81/06/07	1548	0	49 5.50	124 49.50	134.2	0
	437	A4	81/06/07	1618	0	49 2.70	124 51.11	105.4	0
	438	A5	81/06/07	1705	0	48 59.58	124 53.38	282.3	8
	439	A6	81/06/07	1827	0	48 58.78	124 57.80	351.7	0
	440	A7	81/06/07	1904	0	48 57.02	125 1.30	180.0	6
	441	A11	81/06/07	1951	0	48 57.72	125 4.48	184.9	0
	442	A12	81/06/07	2026	0	48 58.20	125 7.80	152.0	3
	443	A13	81/06/07	2117	0	48 54.15	125 12.95	87.5	0
	444	A14	81/06/07	2145	0	48 50.05	125 15.80	102.2	3
	445	A15	81/06/07	2235	0	48 44.80	125 21.60	97.3	0
	446	A10	81/06/07	2313	0	48 48.20	125 14.40	92.2	0
	447	A9	81/06/07	2354	0	48 51.50	125 8.10	37.5	4
	448	A8	81/06/08	0044	0	48 53.78	125 3.05	136.2	0
22									
	449	A0	81/09/07	0617	47	49 12.16	124 49.02	180.7	0
	450	A1	81/09/07	0638	49	49 9.91	124 48.62	65.6	3
	451	A2	81/09/07	0711	51	49 7.15	124 48.80	106.4	4
	452	A3	81/09/07	0746	53	49 5.50	124 49.50	124.2	0
	453	A4	81/09/07	0813	55	49 2.70	124 51.11	113.4	0
	454	A5	81/09/07	0857	57	48 59.58	124 53.38	283.9	9
	455	A6	81/09/07	0958	59	48 58.78	124 57.80	343.5	0
	456	A7	81/09/07	1109	63	48 57.02	125 1.30	172.8	6
	457	A12	81/09/07	1158	63	48 58.20	125 7.80	212.6	3
	458	A13	81/09/07	1241	65	48 54.15	125 12.95	90.2	0
	459	A14	81/09/07	1312	67	48 50.05	125 15.80	98.5	3
	460	A10	81/09/07	1341	69	48 48.20	125 14.40	97.1	0
	461	A9	81/09/07	1423	71	48 51.50	125 8.10	74.5	4

1979 CTD data

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COASTAL ZONE OCEANOGRAPHY
CRUISE NO:     1 ALBERNI PROGRAM              TAPE: U01166   -001
LAT  N 49 12.16                               LONG W 124 49.02
DATE 30/ 1/79                                 PASS NO.  1
TIME (PST) 0910                               STN: A0

 DEPTH      PRESS       SAL        TEMP     SIGMA-T
    .3         .3      15.38       5.44      12.13
   2.0        2.0      28.65       7.65      22.34
   4.9        4.9      30.85       7.72      24.06
  10.0       10.0      31.35       7.66      24.46
  15.0       15.0      31.58       8.06      24.58
  19.9       20.0      31.71       7.99      24.70
  24.9       25.0      31.86       8.35      24.76
  29.8       30.0      32.04       8.79      24.83
  34.8       35.0      32.18       9.10      24.90
  39.7       39.9      32.21       9.01      24.94
  44.8       45.0      32.21       8.92      24.95
  49.7       50.0      32.23       8.84      24.98
  51.7       52.0      32.23       8.80      24.98

CRUISE NO:     1 ALBERNI PROGRAM              TAPE: U01166   -002
LAT  N 49  9.91                               LONG W 124 48.62
DATE 30/ 1/79                                 PASS NO.  3
TIME (PST) 0940                               STN: A1

 DEPTH      PRESS       SAL        TEMP     SIGMA-T
    .3         .3      24.98       6.73      19.57
   2.0        2.0      29.31       7.49      22.88
   5.0        5.0      30.89       7.54      24.11
  10.0       10.0      31.43       7.48      24.55
  15.0       15.1      31.61       7.61      24.67
  19.8       19.9      31.69       7.70      24.72
  24.8       24.9      31.75       7.82      24.75
  29.9       30.0      31.84       8.01      24.80
  34.8       35.0      31.96       8.35      24.84
  39.8       40.0      32.06       8.62      24.88
  44.7       45.0      32.19       8.97      24.92
  49.7       50.0      32.20       8.88      24.95
  59.7       60.0      32.24       8.78      24.99
  69.6       70.0      32.26       8.68      25.02
  79.6       80.0      32.27       8.63      25.04
  90.4       90.9      32.28       8.60      25.05
 100.3      100.9      32.28       8.57      25.06
 101.3      101.9      32.28       8.57      25.06
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COASTAL ZONE OCEANOGRAPHY
CRUISE NO:     1 ALBERNI PROGRAM            TAPE: U01166   -003
LAT  N 49  7.15                             LONG W 124 48.80
DATE 30/ 1/79                               PASS NO.  5
TIME (PST) 1030                             STN: A2

 DEPTH     PRESS      SAL       TEMP     SIGMA-T   OXYGEN
   1.0       1.0     23.75      5.64      18.71
   2.0       2.0     26.91      6.62      21.10
   5.1       5.1     29.93      7.24      23.40
  10.0      10.0     31.30      7.43      24.45
  14.9      15.0     31.60      7.61      24.67
  19.8      19.9     31.72      7.71      24.74
  24.8      24.9     31.82      7.87      24.80
  29.8      30.0     31.88      7.95      24.84
  34.9      35.0     31.92      8.02      24.86
  39.7      39.9     31.94      8.04      24.87
  44.8      45.1     32.00      8.15      24.90
  49.8      50.1     32.06      8.23      24.93     4.00
  59.7      60.0     32.13      8.36      24.97
  69.7      70.0     32.22      8.53      25.01
  74.6      75.0     32.24      8.66      25.01     3.43
  79.6      80.0     32.25      8.66      25.02
  89.6      90.1     32.26      8.62      25.04
 100.5     101.0     32.27      8.59      25.05     3.51
 110.4     111.0     32.28      8.58      25.05
 120.3     120.9     32.28      8.57      25.06
 124.4     125.0     32.28      8.57      25.06     3.51
 129.4     130.1     32.28      8.57      25.06

CRUISE NO:     1 ALBERNI PROGRAM            TAPE: U01166   -004
LAT  N 49  5.50                             LONG W 124 49.50
DATE 30/ 1/79                               PASS NO.  7
TIME (PST) 1135                             STN: A3

 DEPTH     PRESS      SAL       TEMP     SIGMA-T
    .9        .9     27.12      5.75      21.36
   2.0       2.0     28.93      6.82      22.66
   5.0       5.0     30.94      7.13      24.21
  10.0      10.1     31.36      6.95      24.56
  15.0      15.0     31.54      7.15      24.67
  19.9      20.0     31.65      7.34      24.74
  24.9      25.0     31.79      7.76      24.79
  29.9      30.0     31.93      7.90      24.88
  34.8      35.0     31.96      7.96      24.90
  39.8      40.0     31.96      7.95      24.89
  44.8      45.0     32.00      8.04      24.92
  49.7      50.0     32.04      8.15      24.93
  59.6      59.9     32.13      8.22      24.99
  69.7      70.0     32.13      8.22      24.99
  79.6      80.0     32.16      8.22      25.02
  89.5      90.0     32.26      8.31      25.08
 100.5     101.0     32.32      8.33      25.12
 103.3     103.8     32.33      8.33      25.13
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COASTAL ZONE OCEANOGRAPHY
CRUISE NO:     1 ALBERNI PROGRAM               TAPE: U01166    -005
LAT   N 49   2.70                              LONG W 124 51.11
DATE 30/ 1/79                                  PASS NO.  9
TIME (PST) 1205                                STN: A4

 DEPTH        PRESS        SAL         TEMP      SIGMA-T
    .7           .7       29.97        7.02       23.46
   2.0          2.0       30.01        6.97       23.50
   5.1          5.1       31.17        7.08       24.39
  10.0         10.1       31.38        6.83       24.60
  15.0         15.1       31.52        7.00       24.68
  19.9         20.0       31.57        7.11       24.71
  24.9         25.0       31.77        7.74       24.78
  29.9         30.0       31.95        8.07       24.87
  34.8         35.0       32.06        8.27       24.93
  39.8         40.0       32.10        8.25       24.96
  44.8         45.0       32.17        8.35       25.00
  49.7         49.9       32.24        8.45       25.04
  59.6         59.9       32.34        8.25       25.15
  69.7         70.0       32.46        8.34       25.23
  79.6         80.0       32.53        8.45       25.27
  90.5         91.0       32.59        8.51       25.31
 100.4        101.0       32.61        8.53       25.32
 110.3        110.9       32.66        8.53       25.36
 120.3        121.0       32.72        8.48       25.41
 130.3        131.1       32.75        8.42       25.44
 140.1        140.9       32.79        8.34       25.49
 150.1        151.0       32.81        8.28       25.52
 160.0        161.0       32.84        8.23       25.54
 170.0        171.0       32.85        8.20       25.56
 179.9        181.0       32.85        8.19       25.56
 189.8        191.0       32.85        8.18       25.56
 199.9        201.1       32.86        8.17       25.57
 224.6        226.0       32.87        8.16       25.58
 250.5        252.1       32.87        8.15       25.58
 275.2        276.9       32.87        8.14       25.58
 284.8        286.6       32.87        8.15       25.58
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COASTAL ZONE OCEANOGRAPHY

CRUISE NO: 1 ALBERNI PROGRAM
LAT N 48 59.58
DATE 30/ 1/79
TIME (PST) 1246

TAPE: U01166 -006
LONG W 124 53.38
PASS NO. 11
STN: A5

DEPTH	PRESS	SAL	TEMP	SIGMA-T	OXYGEN
1.8	1.8	30.38	6.55	23.84	
4.6	4.6	31.24	6.81	24.49	
9.8	9.9	31.44	6.79	24.65	
14.8	14.8	31.51	6.85	24.69	
20.0	20.1	31.69	7.18	24.79	
24.8	24.9	31.84	7.62	24.85	
29.8	30.0	31.96	7.93	24.90	
34.8	35.0	32.04	8.13	24.93	
39.8	40.0	32.10	8.27	24.96	
44.7	45.0	32.18	8.37	25.00	
49.7	49.9	32.22	8.43	25.03	3.91
59.7	60.1	32.27	8.28	25.09	
69.6	70.0	32.33	8.23	25.15	
74.5	75.0	32.34	8.23	25.16	4.15
79.6	80.0	32.41	8.22	25.21	
89.5	90.0	32.48	8.27	25.26	
100.4	101.0	32.53	8.34	25.29	3.52
110.3	111.0	32.56	8.36	25.31	
120.3	121.0	32.64	8.44	25.36	
125.3	126.0	32.68	8.43	25.39	2.46
130.2	131.0	32.69	8.42	25.40	
140.1	140.9	32.75	8.36	25.46	
150.1	151.0	32.77	8.33	25.48	1.97
160.0	160.9	32.80	8.29	25.51	
170.0	171.0	32.80	8.28	25.51	
179.9	181.0	32.81	8.26	25.52	
189.9	191.1	32.84	8.20	25.55	
199.8	201.0	32.86	8.17	25.57	1.68
224.6	226.0	32.86	8.16	25.57	
250.4	252.0	32.86	8.16	25.57	1.75
275.3	277.0	32.87	8.16	25.58	
300.1	302.0	32.87	8.16	25.58	1.70
324.9	327.1	32.87	8.16	25.58	
349.7	352.0	32.87	8.16	25.58	
356.4	358.8	32.87	8.16	25.58	

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COASTAL ZONE OCEANOGRAPHY
CRUISE NO:     1 ALBERNI PROGRAM              TAPE: U01166   -007
LAT  N 48 58.78                               LONG W 124 57.80
DATE 30/ 1/79                                 PASS NO. 13
TIME (PST) 1425                               STN: A6

  DEPTH      PRESS       SAL        TEMP    SIGMA-T
    1.0        1.0      29.59       6.16     23.27
    2.0        2.0      29.27       6.08     23.02
    5.0        5.0      30.58       6.42     24.02
    9.9       10.0      31.40       6.81     24.61
   15.0       15.0      31.51       6.85     24.69
   19.9       20.0      31.57       6.93     24.73
   24.9       25.0      31.68       7.08     24.80
   29.8       30.0      31.82       7.42     24.86
   34.8       35.0      32.00       7.95     24.93
   39.9       40.1      32.11       8.20     24.98
   44.7       45.0      32.16       8.29     25.01
   49.7       49.9      32.22       8.31     25.05
   59.7       60.0      32.29       8.17     25.12
   69.6       70.0      32.34       8.07     25.18
   79.6       80.0      32.43       8.07     25.25
   89.6       90.1      32.48       8.19     25.27
  100.4      101.0      32.53       8.29     25.29
  110.3      111.0      32.57       8.35     25.31
  120.3      121.0      32.66       8.37     25.38
  130.3      131.0      32.70       8.36     25.42
  140.2      141.0      32.74       8.32     25.45
  150.1      151.0      32.79       8.32     25.50
  160.1      161.0      32.82       8.27     25.52
  170.0      171.0      32.82       8.25     25.53
  179.9      181.0      32.83       8.23     25.54
  189.9      191.1      32.84       8.21     25.55
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COASTAL ZONE OCEANOGRAPHY

CRUISE NO:     1 ALBERNI PROGRAM              TAPE: U01166   -008
LAT   N 48 57.02                              LONG W 125  1.30
DATE 30/ 1/79                                 PASS NO. 15
TIME (PST) 1503                               STN: A7

 DEPTH      PRESS       SAL        TEMP     SIGMA-T    OXYGEN
   2.0        2.0      29.71       6.20      23.36
   5.1        5.1      30.14       6.30      23.68
  10.0       10.1      31.42       6.81      24.63
  15.0       15.0      31.55       6.88      24.72
  19.9       20.0      31.62       7.00      24.76
  24.9       25.0      31.78       7.25      24.85
  29.9       30.0      31.84       7.35      24.89
  34.9       35.1      31.89       7.40      24.92
  39.9       40.1      32.01       7.60      24.99
  44.7       45.0      32.19       7.92      25.08
  49.7       50.0      32.24       7.92      25.12      4.71
  59.7       60.0      32.27       7.81      25.16
  69.7       70.1      32.38       7.85      25.24
  74.5       74.9      32.42       7.98      25.26      3.78
  79.6       80.1      32.44       8.00      25.27
  90.5       91.0      32.49       8.13      25.29
 100.4      101.0      32.55       8.20      25.32      2.75
 110.3      110.9      32.69       8.38      25.41
 120.3      121.0      32.71       8.38      25.42
 125.2      126.0      32.72       8.38      25.43      2.00
 130.2      130.9      32.75       8.37      25.45
 140.2      141.0      32.78       8.34      25.49
 150.1      151.0      32.80       8.32      25.50      1.75
 160.0      161.0      32.81       8.31      25.51
 170.0      171.0      32.81       8.30      25.51
 180.0      181.1      32.81       8.30      25.51
 182.9      184.1      32.81       8.30      25.51
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COASTAL ZONE OCEANOGRAPHY
CRUISE NO:     1 ALBERNI PROGRAM                TAPE: U01166   -009
LAT  N 48 53.78                                 LONG W 125  3.05
DATE 30/ 1/79                                   PASS NO. 17
TIME (PST) 1629                                 STN: A8

 DEPTH      PRESS       SAL        TEMP      SIGMA-T
   5.7        5.8      30.49       6.50       23.93
  10.0       10.0      31.40       6.76       24.62
  14.9       15.0      31.54       6.88       24.71
  19.9       20.0      31.61       6.95       24.76
  24.8       25.0      31.68       7.06       24.80
  29.8       30.0      31.90       7.49       24.91
  34.9       35.1      31.98       7.60       24.96
  39.9       40.1      32.03       7.76       24.98
  44.7       45.0      32.04       7.74       24.99
  49.7       50.0      32.08       7.82       25.01
  59.7       60.0      32.28       8.03       25.14
  69.6       70.0      32.40       8.19       25.20
  80.5       80.9      32.46       8.28       25.24
  89.5       90.0      32.48       8.30       25.25
 100.4      101.0      32.55       8.37       25.30
 110.4      111.0      32.65       8.41       25.37
 120.3      121.0      32.68       8.41       25.40
 130.2      131.0      32.75       8.38       25.45
 140.2      141.0      32.76       8.37       25.46
 150.1      151.0      32.78       8.36       25.48
 160.1      161.0      32.78       8.35       25.48
 169.9      170.9      32.79       8.35       25.49
 179.9      181.0      32.79       8.35       25.49
 187.8      189.0      32.78       8.35       25.49
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COASTAL ZONE OCEANOGRAPHY

CRUISE NO:     1 ALBERNI PROGRAM           TAPE: U01166   -010
LAT  N 48 51.50                            LONG W 125  8.10
DATE 30/ 1/79                              PASS NO. 19
TIME (PST) 1717                            STN: A9

 DEPTH      PRESS      SAL       TEMP    SIGMA-T   OXYGEN
   2.2        2.3     30.94      6.41     24.30
   5.0        5.0     31.13      6.52     24.43
  10.0       10.0     31.35      6.60     24.60
  14.9       15.0     31.48      6.69     24.69
  19.9       20.0     31.70      6.90     24.83
  25.0       25.1     31.75      6.99     24.86
  29.9       30.0     31.81      7.06     24.90
  34.8       35.0     31.82      7.08     24.91
  39.7       40.0     31.84      7.11     24.92
  44.9       45.1     31.87      7.15     24.94
  49.7       49.9     32.08      7.50     25.05     5.16
  59.7       60.0     32.25      7.84     25.14
  69.4       69.8     32.39      8.04     25.22
  74.6       75.0     32.45      8.13     25.25     3.04
  79.6       80.1     32.47      8.16     25.26
  90.5       91.0     32.52      8.23     25.29
 100.4      101.0     32.55      8.27     25.31     2.27
 110.0      110.6     32.61      8.33     25.35
 110.0      110.6     32.61      8.33     25.35
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COASTAL ZONE OCEANOGRAPHY
CRUISE NO:     1 ALBERNI PROGRAM                TAPE: U01166   -011
LAT  N 48 57.72                                 LONG W 125  4.48
DATE 30/ 1/79                                   PASS NO. 21
TIME (PST) 1833                                 STN: A11

 DEPTH      PRESS       SAL        TEMP    SIGMA-T
    .9         .9      29.52       5.98     23.23
   2.0        2.0      29.76       6.12     23.40
   5.0        5.0      30.56       6.44     24.00
   9.9       10.0      31.35       6.73     24.58
  15.0       15.0      31.43       6.76     24.64
  20.0       20.0      31.57       6.88     24.74
  24.8       25.0      31.72       7.00     24.84
  29.8       30.0      31.79       7.11     24.88
  34.9       35.1      31.91       7.33     24.95
  39.9       40.1      32.06       7.58     25.02
  44.5       44.7      32.15       7.71     25.08
  49.7       50.0      32.27       7.83     25.16
  59.7       60.1      32.34       7.82     25.21
  69.7       70.1      32.35       7.84     25.22
  79.6       80.0      32.36       7.83     25.23
  89.5       90.0      32.38       7.83     25.24
 100.5      101.1      32.39       7.83     25.25
 110.3      111.0      32.39       7.78     25.25
 120.3      121.0      32.38       7.78     25.25
 130.4      131.1      32.40       7.86     25.26
 139.2      140.0      32.46       8.06     25.27
 143.8      144.6      32.49       8.13     25.29

CRUISE NO:     1 ALBERNI PROGRAM                TAPE: U01166   -012
LAT  N 48 58.20                                 LONG W 125  7.80
DATE 30/ 1/79                                   PASS NO. 23
TIME (PST) 1900                                 STN: A12

 DEPTH      PRESS       SAL        TEMP    SIGMA-T    OXYGEN
   3.3        3.3      28.44       5.05     22.48
   5.0        5.0      29.96       5.71     23.61
  10.0       10.1      31.42       6.77     24.63
  15.0       15.0      31.49       6.74     24.69
  20.0       20.1      31.58       6.80     24.75
  24.9       25.0      31.66       6.93     24.80
  29.8       30.0      31.79       7.14     24.88
  34.9       35.1      31.95       7.47     24.96
  39.8       40.0      32.10       7.71     25.04
  44.8       45.0      32.22       7.81     25.12
  49.7       50.0      32.26       7.87     25.15     4.54
  59.7       60.0      32.38       8.03     25.21
  69.6       69.9      32.42       8.07     25.24
  74.6       75.1      32.42       8.09     25.24     3.90
  79.6       80.0      32.45       8.11     25.25
  81.1       81.6      32.45       8.12     25.25
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COASTAL ZONE OCEANOGRAPHY
CRUISE NO:     1 ALBERNI PROGRAM           TAPE: U01166   -013
LAT  N 48 54.15                            LONG W 125 12.95
DATE 30/ 1/79                              PASS NO. 25
TIME (PST) 1948                            STN: A13

 DEPTH     PRESS       SAL       TEMP    SIGMA-T
   4.9       5.0     30.36       5.73     23.93
  10.0      10.0     31.02       6.23     24.38
  14.9      15.0     31.35       6.64     24.59
  19.9      20.0     31.47       6.80     24.67
  24.9      25.1     31.62       6.89     24.77
  29.8      30.0     31.74       7.07     24.85
  34.9      35.0     31.89       7.22     24.94
  39.8      40.0     32.02       7.40     25.02
  44.8      45.0     32.14       7.54     25.10
  49.9      50.1     32.20       7.62     25.13
  59.7      60.0     32.25       7.43     25.20
  69.6      70.0     32.30       7.37     25.24
  79.6      80.1     32.37       7.30     25.31
  90.5      91.0     32.44       7.31     25.36
  90.7      91.2     32.44       7.31     25.36

CRUISE NO:     1 ALBERNI PROGRAM           TAPE: U01166   -014
LAT  N 48 50.05                            LONG W 125 15.80
DATE 30/ 1/79                              PASS NO. 27
TIME (PST) 2030                            STN: A14

 DEPTH     PRESS       SAL       TEMP    SIGMA-T
    .9        .9     31.02       6.23     24.38
   2.0       2.0     31.00       6.22     24.37
   5.0       5.1     31.33       6.57     24.58
  10.1      10.1     31.50       6.75     24.70
  15.3      15.4     31.62       6.85     24.78
  20.0      20.1     31.76       7.02     24.87
  24.9      25.0     31.87       7.20     24.93
  29.9      30.0     31.96       7.30     24.99
  34.8      35.0     32.03       7.38     25.03
  39.8      40.0     32.11       7.43     25.09
  44.8      45.0     32.18       7.41     25.14
  49.7      50.0     32.18       7.15     25.18
  59.7      60.0     32.26       7.17     25.24
  69.7      70.0     32.35       7.24     25.30
  79.6      80.0     32.43       7.28     25.36
  89.5      90.0     32.45       7.30     25.37
  98.2      98.7     32.47       7.31     25.39
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COASTAL ZONE OCEANOGRAPHY
CRUISE NO:     1 ALBERNI PROGRAM                TAPE: U01166    -015
LAT  N 48 48.20                                 LONG W 125 14.40
DATE 30/ 1/79                                   PASS NO. 29
TIME (PST) 2102                                 STN: A10

 DEPTH      PRESS       SAL        TEMP     SIGMA-T
    .5         .5     31.34        6.34      24.62
   1.9        1.9     31.31        6.37      24.59
   5.0        5.0     31.40        6.44      24.65
  10.0       10.0     31.58        6.55      24.79
  14.9       15.0     31.74        6.66      24.90
  19.8       19.9     31.84        6.67      24.98
  24.7       24.9     31.91        6.72      25.02
  29.9       30.0     31.96        6.92      25.03
  34.9       35.1     32.02        6.82      25.09
  39.7       39.9     32.09        6.93      25.14
  39.7       39.9     32.09        6.93      25.14

CRUISE NO:     1 ALBERNI PROGRAM                TAPE: U01166    -016
LAT  N 48 48.20                                 LONG W 125 14.40
DATE  4/ 2/79                                   PASS NO.227
TIME (PST) 0508                                 STN: A10

 DEPTH      PRESS       SAL        TEMP     SIGMA-T
    .3         .3     31.78        6.32      24.97
   1.9        1.9     31.80        6.30      24.99
   5.0        5.0     31.79        6.33      24.98
  10.0       10.1     31.82        6.25      25.01
  14.9       15.0     31.83        6.28      25.02
  19.8       19.9     31.85        6.33      25.03
  24.8       24.9     31.90        6.36      25.06
  29.8       30.0     31.91        6.41      25.06
  34.8       35.0     31.92        6.41      25.07
  39.8       40.0     32.04        6.52      25.15
  39.8       40.0     32.04        6.52      25.15
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COASTAL ZONE OCEANOGRAPHY
CRUISE NO: 1 ALBERNI PROGRAM
LAT N 48 50.05
DATE 4/ 2/79
TIME (PST) 0527

TAPE: U01166 -017
LONG W 125 15.80
PASS NO.229
STN: A14

DEPTH	PRESS	SAL	TEMP	SIGMA-T
.3	.3	31.45	6.46	24.69
2.0	2.0	31.51	6.47	24.74
4.9	4.9	31.54	6.45	24.77
10.0	10.1	31.74	6.32	24.94
14.9	15.0	31.78	6.20	24.99
19.9	20.0	31.86	6.27	25.04
24.8	24.9	31.87	6.30	25.05
29.8	29.9	31.91	6.33	25.07
34.8	35.0	31.94	6.37	25.10
39.8	40.1	31.98	6.40	25.12
44.8	45.0	32.02	6.45	25.15
49.8	50.0	32.15	6.71	25.21
59.7	60.0	32.24	7.03	25.24
69.7	70.1	32.30	7.21	25.27
80.4	80.9	32.35	7.20	25.31
89.5	90.0	32.40	7.22	25.35
100.4	101.0	32.44	7.23	25.37
104.1	104.7	32.44	7.23	25.38

CRUISE NO: 1 ALBERNI PROGRAM
LAT N 48 54.15
DATE 4/ 2/79
TIME (PST) 0601

TAPE: U01166 -018
LONG W 125 12.95
PASS NO.231
STN: A13

DEPTH	PRESS	SAL	TEMP	SIGMA-T
.4	.4	30.53	5.61	24.07
2.0	2.0	30.60	5.58	24.13
5.0	5.0	30.57	5.59	24.11
10.0	10.0	30.57	5.58	24.10
14.9	15.0	31.34	6.41	24.61
19.9	20.0	31.68	6.82	24.83
24.9	25.0	31.83	6.71	24.96
29.9	30.0	31.90	6.72	25.02
34.8	35.0	32.08	7.20	25.09
39.8	40.0	32.19	7.43	25.15
44.8	45.1	32.23	7.45	25.18
49.7	50.0	32.29	7.56	25.21
59.7	60.1	32.34	7.47	25.26
69.6	70.0	32.35	7.28	25.30
79.5	80.0	32.38	7.26	25.32
90.5	91.0	32.48	7.24	25.40
100.3	100.9	32.51	7.26	25.42
103.4	104.0	32.51	7.27	25.42

COASTAL ZONE OCEANOGRAPHY
CRUISE NO: 1 ALBERNI PROGRAM TAPE: U01166 -019
LAT N 48 58.20 LONG W 125 7.80
DATE 4/ 2/79 PASS NO.233
TIME (PST) 0640 STN: A12

DEPTH	PRESS	SAL	TEMP	SIGMA-T	OXYGEN
.3	.3	29.48	4.74	23.33	
1.9	2.0	29.73	4.83	23.52	
5.0	5.0	30.81	6.14	24.23	
10.0	10.0	31.50	6.98	24.67	
14.9	15.0	31.63	7.04	24.76	
20.0	20.1	31.81	7.18	24.88	
24.8	25.0	31.96	7.49	24.96	
29.8	29.9	32.04	7.53	25.02	
34.8	35.0	32.13	7.73	25.06	
39.9	40.1	32.23	7.86	25.12	
44.8	45.0	32.33	8.00	25.18	
49.7	50.0	32.38	8.01	25.22	4.36
59.6	59.9	32.42	7.96	25.25	
69.6	70.0	32.42	7.74	25.28	
74.5	75.0	32.39	7.53	25.30	5.18
79.6	80.0	32.40	7.37	25.33	
89.5	90.0	32.44	7.28	25.37	5.37
92.4	92.9	32.47	7.28	25.39	

CRUISE NO: 1 ALBERNI PROGRAM TAPE: U01166 -020
LAT N 48 57.72 LONG W 125 4.48
DATE 4/ 2/79 PASS NO.235
TIME (PST) 0710 STN: A11

DEPTH	PRESS	SAL	TEMP	SIGMA-T
.9	.9	30.68	6.66	24.06
1.9	1.9	30.63	6.61	24.03
5.0	5.0	31.53	6.89	24.70
10.0	10.1	31.65	6.93	24.79
14.9	15.0	31.77	7.10	24.87
19.8	19.9	31.90	7.29	24.94
24.8	24.9	31.98	7.42	24.99
29.8	29.9	32.03	7.50	25.01
34.9	35.1	32.09	7.56	25.05
39.8	40.0	32.15	7.62	25.09
44.7	45.0	32.23	7.70	25.14
49.7	50.0	32.29	7.79	25.18
59.7	60.1	32.41	7.97	25.25
69.6	70.0	32.38	7.51	25.29
79.5	80.0	32.39	7.38	25.32
89.5	90.0	32.42	7.34	25.34
100.4	101.0	32.43	7.34	25.35
110.5	111.1	32.44	7.34	25.36
120.3	121.0	32.45	7.33	25.37
130.3	131.0	32.45	7.32	25.37
140.2	141.0	32.45	7.33	25.37
149.1	150.0	32.46	7.32	25.38

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COASTAL ZONE OCEANOGRAPHY
CRUISE NO:     1 ALBERNI PROGRAM                TAPE: U01166    -021
LAT  N 48 51.50                                 LONG W 125  8.10
DATE  4/ 2/79                                   PASS NO.237
TIME (PST) 0803                                 STN: A9

 DEPTH      PRESS      SAL       TEMP     SIGMA-T   OXYGEN
    .3         .3     31.17      6.72     24.44
   2.0        2.0     31.14      6.66     24.43
   5.0        5.0     31.66      6.98     24.79
  10.0       10.1     31.73      6.88     24.86
  15.0       15.0     31.87      6.96     24.96
  19.8       19.9     31.89      7.05     24.97
  24.9       25.0     31.93      7.06     24.99
  29.8       30.0     31.96      6.95     25.03
  34.8       35.0     32.00      6.91     25.07
  39.8       40.1     32.08      7.18     25.10     5.64
  44.7       45.0     32.15      7.47     25.12
  49.7       50.0     32.23      7.69     25.15
  59.6       59.9     32.37      7.97     25.21
  64.6       65.0     32.40      8.06     25.23     3.76
  69.7       70.1     32.46      8.17     25.26
  80.5       81.0     32.49      8.19     25.28
  89.5       90.0     32.52      8.20     25.30     3.12
 100.4      101.0     32.55      8.23     25.32
 110.3      111.0     32.64      8.33     25.38
 115.5      116.1     32.69      8.36     25.41     1.94
 120.3      121.0     32.73      8.39     25.44
 130.2      131.0     32.74      8.39     25.45
 132.2      133.0     32.74      8.39     25.44
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COASTAL ZONE OCEANOGRAPHY

CRUISE NO:    1 ALBERNI PROGRAM              TAPE: U01166   -022
LAT  N 48 53.78                              LONG W 125  3.05
DATE  4/ 2/79                                PASS NO.239
TIME (PST) 0852                              STN: A8

 DEPTH      PRESS       SAL       TEMP     SIGMA-T
    .5         .5      30.62      6.33      24.05
   2.0        2.0      31.05      6.55      24.37
   5.0        5.1      31.45      6.90      24.64
  10.0       10.0      31.74      7.08      24.84
  15.0       15.1      31.84      7.21      24.90
  19.9       20.0      31.91      7.32      24.94
  24.8       25.0      31.95      7.32      24.98
  29.8       29.9      32.04      7.51      25.02
  34.8       35.0      32.12      7.65      25.06
  39.9       40.1      32.15      7.66      25.09
  44.7       45.0      32.20      7.77      25.11
  49.8       50.1      32.30      8.00      25.16
  59.5       59.9      32.38      8.01      25.22
  69.6       70.0      32.41      8.01      25.24
  80.5       80.9      32.48      8.09      25.28
  90.4       90.9      32.52      8.17      25.30
 100.4      101.0      32.52      8.07      25.32
 110.3      111.0      32.57      8.23      25.34
 120.3      121.0      32.70      8.39      25.41
 130.3      131.0      32.75      8.39      25.45
 140.1      140.9      32.77      8.38      25.47
 150.2      151.1      32.80      8.36      25.49
 151.0      151.9      32.80      8.36      25.50
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COASTAL ZONE OCEANOGRAPHY
CRUISE NO:     1 ALBERNI PROGRAM            TAPE: U01166   -023
LAT  N 48 57.02                             LONG W 125  1.30
DATE  4/ 2/79                               PASS NO.241
TIME (PST) 0922                             STN: A7

  DEPTH      PRESS       SAL       TEMP    SIGMA-T    OXYGEN
     .5         .5     30.81       6.71     24.16
    1.9        1.9     30.79       6.74     24.14
    5.0        5.0     31.38       6.95     24.57
   10.0       10.0     31.77       7.16     24.86
   14.9       15.0     31.84       7.27     24.90
   19.9       20.0     31.97       7.45     24.98
   24.9       25.0     32.02       7.56     25.00
   29.8       30.0     32.10       7.66     25.05
   34.8       35.0     32.15       7.73     25.08
   39.8       40.1     32.20       7.76     25.11
   44.7       45.0     32.27       7.79     25.16
   49.6       49.9     32.29       7.79     25.18     4.63
   59.6       60.0     32.34       7.81     25.22
   70.5       70.9     32.39       7.76     25.26
   75.5       75.9     32.40       7.74     25.27     4.58
   79.5       80.0     32.41       7.67     25.29
   89.5       90.0     32.47       7.60     25.35
  100.3      100.9     32.49       7.60     25.36     4.47
  110.4      111.0     32.54       7.77     25.38
  120.3      121.0     32.64       8.08     25.41
  125.2      125.9     32.73       8.33     25.45     2.26
  130.1      130.9     32.76       8.34     25.46
  140.0      140.9     32.80       8.35     25.49
  150.0      150.9     32.81       8.33     25.51     1.81
  160.1      161.1     32.82       8.33     25.52
  169.9      171.0     32.83       8.30     25.53
  179.9      181.0     32.83       8.30     25.53
  189.8      191.0     32.84       8.29     25.53
  189.8      191.0     32.84       8.29     25.53
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COASTAL ZONE OCEANOGRAPHY

CRUISE NO:     1 ALBERNI PROGRAM              TAPE: U01166   -024
LAT  N 48 58.78                               LONG W 124 57.80
DATE  4/ 2/79                                 PASS NO.243
TIME (PST) 1000                               STN: A6

 DEPTH      PRESS       SAL        TEMP     SIGMA-T
    .5         .5     28.78        6.43      22.60
   2.1        2.1     31.35        7.01      24.54
   5.0        5.1     31.67        7.17      24.77
   9.9       10.0     31.76        7.30      24.83
  15.0       15.1     31.91        7.66      24.89
  19.9       20.0     32.00        7.75      24.96
  24.8       25.0     32.12        8.06      25.01
  29.8       30.0     32.17        8.17      25.03
  34.7       34.9     32.25        8.21      25.08
  39.8       40.0     32.31        8.07      25.15
  44.8       45.0     32.31        7.92      25.17
  49.7       50.0     32.35        7.89      25.21
  59.6       60.0     32.38        7.88      25.24
  69.6       70.0     32.41        7.85      25.26
  79.5       80.0     32.45        7.90      25.29
  89.5       90.0     32.47        7.94      25.30
 100.4      100.9     32.47        7.77      25.32
 110.5      111.1     32.52        7.90      25.34
 120.2      120.9     32.64        8.33      25.38
 130.2      131.0     32.74        8.33      25.45
 140.1      141.0     32.78        8.34      25.49
 150.1      151.0     32.80        8.33      25.50
 160.1      161.0     32.82        8.29      25.52
 169.9      171.0     32.84        8.25      25.54
 169.9      171.0     32.84        8.25      25.54
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COASTAL ZONE OCEANOGRAPHY
CRUISE NO:     1 ALBERNI PROGRAM             TAPE: U01166   -025
LAT  N 48 59.58                              LONG W 124 53.38
DATE  4/ 2/79                                PASS NO.245
TIME (PST) 1030                              STN: A5

  DEPTH      PRESS       SAL        TEMP     SIGMA-T    OXYGEN
     .8         .8      30.11       6.84      23.59
    1.9        1.9      31.12       6.98      24.37
    4.9        4.9      31.44       6.99      24.62
   10.0       10.0      31.82       7.56      24.84
   14.9       15.0      31.95       7.87      24.90
   19.9       20.0      32.03       8.02      24.94
   24.8       25.0      32.12       8.21      24.99
   29.9       30.1      32.20       8.37      25.02
   34.7       34.9      32.27       8.30      25.09
   39.8       40.0      32.33       8.16      25.15
   44.8       45.0      32.39       8.02      25.22
   49.8       50.1      32.42       8.02      25.24      4.15
   59.7       60.0      32.43       8.05      25.25
   69.6       70.0      32.49       8.13      25.29
   74.6       75.0      32.50       8.13      25.30      3.76
   80.5       80.9      32.51       8.15      25.30
   89.5       90.0      32.54       8.22      25.31
  100.4      101.0      32.57       8.27      25.33      3.11
  110.4      111.1      32.65       8.40      25.37
  120.3      121.0      32.70       8.41      25.41
  125.3      126.0      32.75       8.39      25.45      2.17
  130.2      131.0      32.76       8.38      25.46
  140.3      141.1      32.81       8.31      25.51
  150.2      151.1      32.83       8.28      25.53      1.92
  160.0      160.9      32.84       8.26      25.54
  170.1      171.1      32.85       8.24      25.56
  179.8      180.9      32.87       8.20      25.57
  189.9      191.1      32.88       8.19      25.58
  199.9      201.1      32.89       8.17      25.59      1.73
  224.7      226.1      32.89       8.17      25.59
  250.5      252.1      32.89       8.16      25.60      1.71
  270.2      271.9      32.89       8.16      25.60
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COASTAL ZONE OCEANOGRAPHY

CRUISE NO:     1 ALBERNI PROGRAM            TAPE: U01166    -026
LAT  N 49  2.70                             LONG W 124 51.11
DATE  4/ 2/79                               PASS NO.247
TIME (PST) 1126                             STN: A4

 DEPTH      PRESS       SAL        TEMP     SIGMA-T
    .5         .5      30.09       7.04      23.55
   2.0        2.0      30.93       7.04      24.21
   4.9        4.9      31.46       7.02      24.63
   9.9       10.0      31.68       7.22      24.77
  15.0       15.1      31.86       7.75      24.85
  19.8       19.9      32.01       8.02      24.93
  24.8       25.0      32.13       8.24      24.99
  29.7       29.9      32.24       8.35      25.06
  34.7       34.9      32.29       8.37      25.09
  39.8       40.0      32.32       8.27      25.13
  44.8       45.1      32.37       8.24      25.18
  49.8       50.0      32.41       8.22      25.21
  59.7       60.0      32.45       8.25      25.24
  69.7       70.1      32.50       8.32      25.26
  79.6       80.0      32.52       8.33      25.28
  89.6       90.1      32.55       8.42      25.29
 100.4      101.0      32.59       8.48      25.31
 110.4      111.0      32.63       8.52      25.34
 120.2      120.9      32.67       8.53      25.37
 130.1      130.9      32.74       8.48      25.43
 140.1      141.0      32.78       8.41      25.47
 150.2      151.1      32.80       8.37      25.49
 160.1      161.1      32.81       8.33      25.51
 170.0      171.0      32.83       8.29      25.53
 180.0      181.1      32.85       8.25      25.55
 189.9      191.1      32.87       8.21      25.57
 199.8      201.0      32.88       8.19      25.58
 224.6      226.0      32.88       8.18      25.59
 250.5      252.1      32.89       8.16      25.59
 275.2      277.0      32.90       8.15      25.60
 278.0      279.8      32.90       8.15      25.60
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COASTAL ZONE OCEANOGRAPHY
CRUISE NO:     1 ALBERNI PROGRAM                TAPE: U01166   -027
LAT  N 49  5.50                                 LONG W 124 49.50
DATE  4/ 2/79                                   PASS NO.249
TIME (PST) 1153                                 STN: A3

 DEPTH      PRESS      SAL       TEMP    SIGMA-T
    .2         .2     29.48      7.11     23.06
   2.0        2.0     29.56      7.26     23.11
   5.0        5.0     30.45      7.40     23.78
  10.0       10.0     31.66      7.73     24.69
  15.0       15.0     31.83      7.84     24.81
  19.9       20.0     31.88      7.90     24.84
  24.9       25.0     32.07      8.09     24.96
  29.8       29.9     32.09      8.11     24.98
  34.8       35.0     32.12      8.13     25.00
  39.8       40.0     32.23      8.23     25.07
  44.7       45.0     32.32      8.26     25.13
  49.8       50.1     32.36      8.27     25.16
  59.7       60.0     32.39      8.26     25.19
  69.7       70.0     32.39      8.27     25.19
  79.5       80.0     32.40      8.27     25.20
  89.6       90.1     32.41      8.27     25.21
  99.5      100.1     32.42      8.28     25.21
 101.1      101.7     32.42      8.28     25.21

CRUISE NO:     1 ALBERNI PROGRAM                TAPE: U01166   -028
LAT  N 49  7.15                                 LONG W 124 48.80
DATE  4/ 2/79                                   PASS NO.251
TIME (PST) 1219                                 STN: A2

 DEPTH      PRESS      SAL       TEMP    SIGMA-T    OXYGEN
    .4         .4     28.29      6.92     22.15
   1.9        1.9     29.84      7.31     23.32
   4.9        4.9     31.14      7.43     24.33
   9.9       10.0     31.59      7.61     24.65
  14.9       15.0     31.76      7.77     24.77
  19.9       20.0     31.89      7.96     24.84
  24.8       24.9     32.00      8.21     24.89
  29.9       30.0     32.06      8.27     24.93
  34.8       35.0     32.10      8.25     24.96
  39.8       40.0     32.13      8.33     24.97
  44.8       45.0     32.15      8.27     25.00
  49.7       50.0     32.16      8.26     25.01     3.90
  59.7       60.0     32.18      8.25     25.03
  69.6       70.0     32.22      8.31     25.05
  74.6       75.0     32.25      8.38     25.06     3.36
  79.6       80.1     32.27      8.44     25.07
  89.5       90.0     32.29      8.57     25.07
 100.4      101.0     32.30      8.57     25.08     3.25
 110.3      111.0     32.31      8.57     25.08
 120.4      121.1     32.32      8.57     25.09
 125.1      125.8     32.32      8.57     25.09     3.20
 125.1      125.8     32.32      8.57     25.09
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COASTAL ZONE OCEANOGRAPHY
CRUISE NO: 1 ALBERNI PROGRAM
LAT N 49 9.91
DATE 4/ 2/79
TIME (PST) 1255

TAPE: U01166 -029
LONG W 124 48.62
PASS NO.253
STN: A1

DEPTH	PRESS	SAL	TEMP	SIGMA-T
.6	.6	21.35	6.62	16.73
2.0	2.0	30.32	7.69	23.65
4.9	4.9	31.40	7.79	24.48
9.9	10.0	31.67	7.90	24.67
14.9	15.0	31.81	8.13	24.76
19.9	20.0	31.87	8.13	24.80
24.9	25.0	32.00	8.54	24.84
29.9	30.0	32.11	8.74	24.90
34.8	35.0	32.13	8.56	24.94
39.8	40.0	32.20	8.81	24.96
44.8	45.0	32.23	8.82	24.98
49.7	50.0	32.25	8.80	25.00
59.7	60.1	32.26	8.77	25.01
69.6	70.0	32.27	8.73	25.03
79.6	80.0	32.28	8.70	25.04
89.5	90.0	32.30	8.63	25.06
100.5	101.1	32.31	8.59	25.08
109.4	110.0	32.31	8.58	25.08

CRUISE NO: 1 ALBERNI PROGRAM
LAT N 49 12.16
DATE 4/ 2/79
TIME (PST) 1303

TAPE: U01166 -030
LONG W 124 49.02
PASS NO.255
STN: A0

DEPTH	PRESS	SAL	TEMP	SIGMA-T
.2	.2	20.09	6.52	15.75
2.0	2.0	27.49	7.37	21.47
5.0	5.0	30.86	7.76	24.06
9.9	10.0	31.67	7.93	24.67
15.0	15.0	31.83	8.30	24.74
19.9	20.0	32.00	8.77	24.81
24.9	25.0	32.10	8.89	24.86
29.8	30.0	32.18	8.97	24.92
34.9	35.1	32.19	8.82	24.95
39.8	40.0	32.21	8.80	24.96
44.9	45.1	32.22	8.80	24.97
49.7	50.0	32.24	8.82	24.99
59.7	60.0	32.26	8.78	25.01
59.7	60.0	32.26	8.78	25.01

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COASTAL ZONE OCEANOGRAPHY
CRUISE NO:     2 ALBERNI PROGRAM              TAPE: U01166   -031
LAT   N 49   9.91                             LONG W 124 48.62
DATE   8/ 3/79                                PASS NO. 33
TIME (PST) 0522                               STN: A1

  DEPTH      PRESS       SAL        TEMP    SIGMA-T
     .0         .0                  4.91
    2.0        2.0                  4.90
    5.0        5.0                  5.99
   10.0       10.0     29.16        6.59     22.87
   15.0       15.0     29.54        6.65     23.16
   19.9       20.0     29.86        6.74     23.41
   24.9       25.0     30.09        6.89     23.57
   29.9       30.0     30.36        7.01     23.76
   34.9       35.0     30.75        7.31     24.03
   39.8       40.0     30.96        7.59     24.16
   44.8       45.0     31.35        7.85     24.43
   49.8       50.0     31.65        8.13     24.63
   60.2       60.5     31.89        8.36     24.78
   70.2       70.5     32.01        8.50     24.85
   80.1       80.5     32.14        8.56     24.95
   90.1       90.5     32.16        8.54     24.96
  100.0      100.5     32.17        8.52     24.98
  103.5      104.0     32.18        8.52     24.98

CRUISE NO:     2 ALBERNI PROGRAM              TAPE: U01166   -032
LAT   N 49   7.15                             LONG W 124 48.80
DATE   8/ 3/79                                PASS NO.  5
TIME (PST) 0553                               STN: A2

  DEPTH      PRESS       SAL        TEMP    SIGMA-T    OXYGEN
     .0         .0                  5.11
    2.0        2.0                  5.19
    5.0        5.0                  6.10
   10.0       10.0     29.32        6.58     23.00
   15.0       15.0     29.64        6.66     23.25
   19.9       20.0     29.95        6.76     23.47
   24.9       25.0     30.21        6.93     23.66
   29.9       30.0     30.38        7.04     23.78
   34.9       35.0     30.62        7.23     23.94
   39.8       40.0     30.96        7.49     24.17
   44.8       45.0     31.24        7.74     24.36
   49.8       50.0     31.57        8.05     24.57     4.20
   60.2       60.5     31.95        8.39     24.83
   70.2       70.5     32.14        8.56     24.95
   75.2       75.5     32.18        8.57     24.98     2.73
   80.1       80.5     32.20        8.52     25.00
   90.1       90.5     32.22        8.48     25.02
  100.0      100.5     32.23        8.46     25.03     3.07
  109.9      110.5     32.23        8.46     25.03
  119.9      120.5     32.23        8.48     25.03
  122.4      123.0     32.24        8.48     25.04
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COASTAL ZONE OCEANOGRAPHY
CRUISE NO:     2 ALBERNI PROGRAM          TAPE: U01166    -033
LAT  N 49  5.50                           LONG W 124 49.50
DATE  8/ 3/79                             PASS NO.  7
TIME (PST) 0655                           STN: A3

 DEPTH     PRESS       SAL       TEMP    SIGMA-T
    .0        .0                 5.27
   2.0       2.0                 5.30
   5.0       5.0                 5.97
  10.0      10.0                 6.46
  15.0      15.0     29.64       6.42     23.27
  19.9      20.0     29.88       6.58     23.44
  24.9      25.0     30.24       6.86     23.69
  29.9      30.0     30.44       7.01     23.83
  34.9      35.0     30.77       7.27     24.05
  39.8      40.0     30.95       7.46     24.17
  44.8      45.0     31.03       7.52     24.22
  49.8      50.0     31.24       7.62     24.38
  60.2      60.5     31.47       7.80     24.53
  70.2      70.5     31.54       7.88     24.58
  80.1      80.5     31.61       7.94     24.62
  90.1      90.5     31.64       7.97     24.64
 100.0     100.5     31.65       7.99     24.65
 109.5     110.0     31.66       8.00     24.65
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COASTAL ZONE OCEANOGRAPHY

CRUISE NO:     2 ALBERNI PROGRAM            TAPE: U01166    -034
LAT   N 49   2.70                           LONG W 124 51.11
DATE   8/ 3/79                              PASS NO.  9
TIME (PST) 0723                             STN: A4

  DEPTH       PRESS        SAL         TEMP     SIGMA-T
     .0          .0                    4.96
    2.0         2.0                    4.96
    5.0         5.0                    6.13
   10.0        10.0                    6.61
   15.0        15.0       29.55        6.38      23.21
   19.9        20.0       29.80        6.40      23.40
   24.9        25.0       30.12        6.52      23.64
   29.9        30.0       30.52        6.66      23.94
   34.9        35.0       30.76        7.05      24.07
   39.8        40.0       30.97        7.32      24.20
   44.8        45.0       31.22        7.57      24.37
   49.8        50.0       31.43        7.75      24.51
   60.2        60.5       31.73        7.78      24.74
   70.2        70.5       31.99        7.99      24.92
   80.1        80.5       32.15        8.11      25.02
   90.1        90.5       32.31        8.21      25.13
  100.0       100.5       32.46        8.33      25.24
  109.9       110.5       32.53        8.40      25.28
  119.9       120.5       32.61        8.42      25.34
  129.8       130.5       32.63        8.42      25.35
  140.2       141.0       32.66        8.41      25.38
  150.2       151.0       32.67        8.37      25.39
  160.1       161.0       32.71        8.36      25.42
  170.0       171.0       32.72        8.34      25.43
  180.0       181.0       32.73        8.31      25.45
  189.9       191.0       32.74        8.29      25.46
  199.8       201.0       32.75        8.27      25.47
  219.7       221.0       32.75        8.21      25.48
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COASTAL ZONE OCEANOGRAPHY
CRUISE NO:    2 ALBERNI PROGRAM                    TAPE: U01166    -035
LAT  N 48 59.58                                    LONG W 124 53.38
DATE  8/ 3/79                                      PASS NO. 11
TIME (PST) 0806                                    STN: A5

 DEPTH      PRESS       SAL        TEMP    SIGMA-T    OXYGEN
    .0         .0                  5.28
   2.0        2.0                  5.74
   5.0        5.0                  6.63
  10.0       10.0      29.26       6.57     22.95
  15.0       15.0      29.61       6.49     23.24
  19.9       20.0      29.83       6.53     23.41
  24.9       25.0      29.99       6.51     23.54
  29.9       30.0      30.28       6.59     23.75
  34.9       35.0      30.55       6.76     23.95
  39.8       40.0      30.88       7.11     24.16
  44.8       45.0      31.07       7.29     24.29
  49.8       50.0      31.27       7.49     24.42     5.07
  60.2       60.5      31.66       7.57     24.71
  70.2       70.5      31.96       7.75     24.92
  75.2       75.5      32.00       7.78     24.95     4.35
  80.1       80.5      32.10       7.84     25.02
  90.1       90.5      32.23       8.04     25.10
 100.0      100.5      32.33       8.15     25.16     3.75
 109.9      110.5      32.42       8.27     25.21
 119.9      120.5      32.49       8.30     25.26
 124.9      125.5      32.51       8.29     25.28     2.95
 129.8      130.5      32.52       8.30     25.29
 140.3      141.0      32.57       8.26     25.33
 150.2      151.0      32.66       8.26     25.40     2.43
 160.1      161.0      32.67       8.26     25.41
 170.1      171.0      32.68       8.25     25.41
 180.0      181.0      32.69       8.24     25.43
 189.9      191.0      32.71       8.24     25.45
 199.9      201.0      32.73       8.23     25.46     1.79
 225.2      226.5      32.73       8.22     25.46
 250.0      251.5      32.73       8.22     25.46     1.72
 274.8      276.5      32.72       8.22     25.45
 300.1      302.0      32.71       8.23     25.44     1.71
 323.0      325.0      32.70       8.23     25.43
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COASTAL ZONE OCEANOGRAPHY

CRUISE NO: 2 ALBERNI PROGRAM TAPE: U01166 -036
LAT N 48 58.78 LONG W 124 57.80
DATE 8/ 3/79 PASS NO. 13
TIME (PST) 0935 STN: A6

DEPTH	PRESS	SAL	TEMP	SIGMA-T
.0	.0		5.47	
2.0	2.0		5.60	
5.0	5.0		6.53	
10.0	10.0		6.75	
15.0	15.0	29.66	6.55	23.27
19.9	20.0	29.98	6.58	23.52
24.9	25.0	30.19	6.58	23.69
29.9	30.0	30.49	6.74	23.90
34.9	35.0	30.87	7.00	24.17
39.8	40.0	31.04	7.10	24.29
44.8	45.0	31.19	7.20	24.39
49.8	50.0	31.25	7.25	24.43
60.2	60.5	31.49	7.37	24.60
70.2	70.5	31.75	7.57	24.79
80.1	80.5	31.96	7.72	24.93
90.1	90.5	32.12	7.86	25.04
100.0	100.5	32.25	7.99	25.12
109.9	110.5	32.34	8.09	25.17
119.9	120.5	32.42	8.14	25.23
129.8	130.5	32.51	8.21	25.29
139.8	140.5	32.57	8.22	25.33
150.2	151.0	32.60	8.24	25.36
160.1	161.0	32.65	8.24	25.39
161.1	162.0	32.65	8.24	25.39

COASTAL ZONE OCEANOGRAPHY
CRUISE NO: 2 ALBERNI PROGRAM
LAT N 48 57.02
DATE 8/ 3/79
TIME (PST) 1012

TAPE: U01166 -037
LONG W 125 1.30
PASS NO. 15
STN: A7

DEPTH	PRESS	SAL	TEMP	SIGMA-T	OXYGEN
.0	.0		5.45		
2.0	2.0		5.46		
5.0	5.0		6.49		
10.0	10.0	29.44	6.79	23.07	
15.0	15.0	29.79	6.63	23.36	
19.9	20.0	30.08	6.64	23.60	
24.9	25.0	30.20	6.65	23.69	
29.9	30.0	30.40	6.68	23.84	
34.9	35.0	30.53	6.80	23.93	
39.8	40.0	30.91	7.03	24.20	
44.8	45.0	31.09	7.12	24.33	
49.8	50.0	31.18	7.16	24.39	5.62
60.2	60.5	31.46	7.35	24.59	
70.2	70.5	31.85	7.56	24.86	
75.2	75.5	32.05	7.69	25.00	4.43
80.1	80.5	32.07	7.76	25.01	
90.1	90.5	32.23	7.89	25.12	
100.0	100.5	32.33	7.93	25.19	2.63
109.9	110.5	32.43	8.08	25.25	
119.9	120.5	32.51	8.14	25.30	
124.8	125.5	32.53	8.15	25.32	3.48
129.8	130.5	32.58	8.19	25.35	
140.2	141.0	32.59	8.20	25.36	
150.2	151.0	32.64	8.22	25.39	2.16
160.1	161.0	32.67	8.22	25.41	
161.1	162.0	32.67	8.22	25.41	

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COASTAL ZONE OCEANOGRAPHY

CRUISE NO:     2 ALBERNI PROGRAM             TAPE: U01166    -038
LAT  N 48 53.78                              LONG W 125   3.05
DATE  8/ 3/79                                PASS NO. 17
TIME (PST) 1110                              STN: A8

  DEPTH      PRESS       SAL       TEMP    SIGMA-T
     .0         .0                 5.84
    2.0        2.0                 6.60
    5.0        5.0                 6.88
   10.0       10.0     29.38       6.89     23.01
   15.0       15.0     29.68       6.77     23.26
   19.9       20.0     30.20       6.73     23.68
   24.9       25.0     30.35       6.77     23.79
   29.9       30.0     30.54       6.82     23.93
   34.9       35.0     30.58       6.83     23.96
   39.8       40.0     30.72       6.85     24.07
   44.8       45.0     30.85       6.88     24.17
   49.8       50.0     31.02       6.93     24.29
   60.2       60.5     31.33       7.18     24.51
   70.2       70.5     31.81       7.52     24.84
   80.1       80.5     32.05       7.67     25.01
   90.1       90.5     32.16       7.80     25.08
  100.0      100.5     32.29       7.94     25.16
  109.9      110.5     32.39       8.05     25.22
  119.9      120.5     32.49       8.12     25.29
  129.8      130.5     32.55       8.19     25.33
  140.3      141.0     32.59       8.22     25.35
  150.2      151.0     32.62       8.23     25.37
  160.1      161.0     32.63       8.24     25.38
  170.1      171.0     32.65       8.24     25.39
  173.0      174.0     32.65       8.23     25.40
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COASTAL ZONE OCEANOGRAPHY
CRUISE NO:     2 ALBERNI PROGRAM          TAPE: U01166    -039
LAT  N 48 51.50                           LONG W 125  8.10
DATE  8/ 3/79                             PASS NO. 19
TIME (PST) 1146                           STN: A9

 DEPTH      PRESS       SAL        TEMP    SIGMA-T   OXYGEN
    .0         .0                  6.38
   2.0        2.0                  6.74
   5.0        5.0                  6.88
  10.0       10.0      29.71       6.82     23.28
  15.0       15.0      30.29       7.26     23.68
  19.9       20.0      30.39       7.15     23.77
  24.9       25.0      30.58       7.33     23.90
  29.9       30.0      30.76       7.45     24.02
  34.9       35.0      30.81       7.31     24.08
  39.8       40.0      30.93       7.41     24.16
  44.8       45.0      30.89       7.25     24.15
  49.8       50.0      31.12       7.00     24.36     6.09
  60.2       60.5      31.57       7.28     24.69
  70.2       70.5      31.97       7.61     24.95
  75.1       75.5      32.01       7.67     24.98     4.36
  80.1       80.5      32.06       7.71     25.01
  90.1       90.5      32.23       7.84     25.12
 100.0      100.5      32.38       8.00     25.22     3.21
 109.9      110.5      32.47       8.12     25.27
 119.9      120.5      32.54       8.26     25.30
 123.4      124.0      32.56       8.30     25.31

CRUISE NO:     2 ALBERNI PROGRAM          TAPE: U01166    -040
LAT  N 48 48.20                           LONG W 125 14.40
DATE  8/ 3/79                             PASS NO. 21
TIME (PST) 1235                           STN: A10

 DEPTH      PRESS       SAL        TEMP    SIGMA-T
    .0         .0                  7.19
   2.0        2.0      29.01       7.05     22.70
   5.0        5.0      29.75       7.20     23.26
  10.0       10.0      30.03       7.89     23.39
  14.9       15.0      30.48       8.00     23.73
  19.9       20.0      30.85       8.14     24.00
  24.9       25.0      30.97       8.15     24.09
  29.9       30.0      31.04       7.81     24.19
  34.9       35.0      31.10       7.42     24.29
  39.8       40.0      31.47       8.15     24.48
  40.8       41.0      31.50       8.13     24.51
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COASTAL ZONE OCEANOGRAPHY
CRUISE NO:     2 ALBERNI PROGRAM          TAPE: U01166    -041
LAT   N 48 57.72                          LONG W 125   4.48
DATE   8/ 3/79                            PASS NO. 23
TIME (PST) 1405                           STN: A11

  DEPTH      PRESS       SAL       TEMP    SIGMA-T
     .0         .0                 6.30
    2.0        2.0                 6.30
    5.0        5.0                 6.81
   10.0       10.0     29.61       6.81     23.20
   15.0       15.0     29.84       6.74     23.39
   19.9       20.0     30.23       6.83     23.69
   24.9       25.0     30.35       6.85     23.78
   29.9       30.0     30.56       6.96     23.93
   34.9       35.0     30.80       7.02     24.11
   39.8       40.0     30.83       7.20     24.11
   44.8       45.0     31.04       7.15     24.28
   49.8       50.0     31.16       7.25     24.36
   51.8       52.0     31.18       7.24     24.38

CRUISE NO:     2 ALBERNI PROGRAM          TAPE: U01166    -042
LAT   N 48 58.20                          LONG W 125   7.80
DATE   8/ 3/79                            PASS NO. 25
TIME (PST) 1426                           STN: A12

  DEPTH      PRESS       SAL       TEMP    SIGMA-T    OXYGEN
     .0         .0                 6.68
    2.0        2.0                 6.67
    5.0        5.0                 6.75
   10.0       10.0     29.54       6.69     23.16
   15.0       15.0     29.94       6.74     23.47
   19.9       20.0     30.22       6.88     23.67
   24.9       25.0     30.49       6.86     23.89
   29.9       30.0     30.61       6.90     23.97
   34.9       35.0     30.78       6.97     24.10
   39.8       40.0     30.94       7.02     24.22
   44.8       45.0     31.09       7.05     24.33
   49.8       50.0     31.26       7.18     24.45     5.79
   60.2       60.5     31.52       7.37     24.63
   70.2       70.5     31.78       7.54     24.81
   75.1       75.5     31.91       7.65     24.90     4.54
   80.1       80.5     31.95       7.68     24.93
   88.6       89.0     32.01       7.75     24.96
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COASTAL ZONE OCEANOGRAPHY
CRUISE NO:     2 ALBERNI PROGRAM          TAPE: U01166   -043
LAT  N 48 54.15                           LONG W 125 12.95
DATE  8/ 3/79                             PASS NO. 27
TIME (PST) 1514                           STN: A13

 DEPTH      PRESS       SAL        TEMP   SIGMA-T
    .0         .0                  7.10
   2.0        2.0                  7.27
   5.0        5.0                  7.23
  10.0       10.0                  7.27
  15.0       15.0      30.01       6.94    23.50
  19.9       20.0      30.28       7.04    23.70
  24.9       25.0      30.59       7.05    23.94
  29.9       30.0      30.85       7.30    24.11
  34.9       35.0      30.99       7.60    24.18
  39.8       40.0      31.13       7.56    24.30
  44.8       45.0      31.33       7.57    24.46
  49.8       50.0      31.49       7.56    24.58
  60.2       60.5      31.69       7.54    24.74
  70.2       70.5      31.91       7.66    24.90
  80.1       80.5      32.01       7.74    24.97
  85.6       86.0      32.11       7.80    25.03

CRUISE NO:     2 ALBERNI PROGRAM          TAPE: U01166   -044
LAT  N 48 50.05                           LONG W 125 15.80
DATE  8/ 3/79                             PASS NO. 29
TIME (PST) 1545                           STN: A14

 DEPTH      PRESS       SAL        TEMP   SIGMA-T   OXYGEN
    .0         .0                  7.29
   2.0        2.0                  7.31
   5.0        5.0      29.05       7.25    22.70
  10.0       10.0      29.41       7.49    22.96
  15.0       15.0      30.12       7.22    23.55
  19.9       20.0      30.20       7.62    23.56
  24.9       25.0      30.64       7.94    23.86
  29.9       30.0      30.85       8.02    24.01
  34.9       35.0      30.93       7.93    24.09
  39.8       40.0      31.17       8.02    24.27
  44.8       45.0      31.53       8.05    24.55
  49.8       50.0      31.56       8.06    24.57     6.32
  60.2       60.5      31.65       8.10    24.63
  70.2       70.5      31.82       8.04    24.77
  75.1       75.5      31.94       7.98    24.88     6.29
  80.1       80.5      32.08       7.86    25.00
  85.1       85.5      32.21       7.88    25.10     6.10
  90.1       90.5      32.42       7.93    25.26
  90.6       91.0      32.43       7.93    25.27
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COASTAL ZONE OCEANOGRAPHY
CRUISE NO:    3 ALBERNI PROGRAM          TAPE: U01166   -045
LAT  N 48 57.02                          LONG W 125  1.30
DATE 18/ 4/79                            PASS NO.  1
TIME (PST) 2009                          STN: A7

 DEPTH     PRESS      SAL       TEMP   SIGMA-T   OXYGEN
    .1        .1                9.71
   2.1       2.1                9.08
   5.0       5.0     30.10      8.36    23.38
  10.0      10.0     31.42      8.05    24.46
  14.9      15.0     31.58      8.03    24.58
  19.9      20.0     31.68      7.96    24.68
  24.9      25.0     31.77      7.97    24.74
  29.8      29.9     31.84      7.93    24.81
  34.9      35.0     31.87      7.91    24.83
  39.8      40.0     31.99      7.84    24.93
  44.7      44.9     32.05      7.82    24.99
  49.8      50.0     32.20      7.90    25.09     5.21
  59.7      60.0     32.30      7.96    25.16
  69.6      70.0     32.39      8.03    25.22
  74.7      75.1     32.43      8.08    25.24     5.07
  80.4      80.9     32.46      8.12    25.26
  89.5      90.0     32.49      8.14    25.28
 100.5     101.1     32.52      8.16    25.30     5.23
 110.4     111.0     32.55      8.18    25.32
 120.3     121.0     32.57      8.19    25.34
 125.3     126.0     32.58      8.19    25.35     5.26
 130.2     131.0     32.59      8.19    25.36
 140.2     141.0     32.59      8.19    25.36
 150.1     151.0     32.61      8.19    25.37     5.15
 160.1     161.1     32.62      8.20    25.38
 170.0     171.0     32.62      8.20    25.38
 180.0     181.0     32.62      8.20    25.38
 186.8     187.9     32.63      8.20    25.38
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COASTAL ZONE OCEANOGRAPHY

CRUISE NO:     3 ALBERNI PROGRAM             TAPE: U01166    -046
LAT  N 48 53.78                              LONG W 125  3.05
DATE 18/ 4/79                                PASS NO.  2
TIME (PST) 2106                              STN: A8

 DEPTH      PRESS      SAL       TEMP     SIGMA-T
    .2         .2     23.39      9.70     17.95
   2.1        2.1     25.52      9.50     19.64
   5.0        5.0     30.72      8.37     23.87
   9.9       10.0     31.45      8.08     24.48
  15.0       15.0     31.63      8.11     24.61
  19.9       20.0     31.74      8.05     24.71
  24.9       25.0     31.79      8.02     24.75
  29.9       30.0     31.89      7.85     24.86
  34.9       35.0     31.94      7.83     24.90
  39.8       39.9     31.99      7.83     24.94
  44.7       44.9     32.08      7.82     25.01
  49.8       50.0     32.18      7.87     25.08
  59.7       60.0     32.33      7.98     25.19
  69.7       70.0     32.40      8.04     25.23
  79.7       80.1     32.45      8.07     25.26
  90.5       91.0     32.47      8.09     25.27
 100.4      101.0     32.51      8.15     25.30
 110.4      111.0     32.55      8.19     25.32
 120.3      121.0     32.58      8.21     25.34
 130.2      131.0     32.59      8.22     25.35
 140.2      141.0     32.59      8.22     25.35
 150.2      151.0     32.60      8.23     25.36
 160.0      161.0     32.61      8.23     25.36
 170.0      171.0     32.61      8.23     25.37
 172.7      173.8     32.61      8.23     25.37
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COASTAL ZONE OCEANOGRAPHY
CRUISE NO:     3 ALBERNI PROGRAM                    TAPE: U01166    -047
LAT   N 48 51.50                                    LONG W 125  8.10
DATE 18/ 4/79                                       PASS NO.  5
TIME (PST) 2148                                     STN: A9

 DEPTH      PRESS       SAL       TEMP    SIGMA-T   OXYGEN
    .1         .1      26.07      9.43     20.07
   2.0        2.0      27.50      9.33     21.21
   5.0        5.0      30.84      8.61     23.92
  10.0       10.0      31.65      8.21     24.62
  15.0       15.0      31.73      8.17     24.68
  19.9       19.9      31.79      8.12     24.74
  24.9       25.0      31.81      8.08     24.76
  29.8       30.0      31.91      8.06     24.84
  34.8       35.0      32.02      8.00     24.94
  39.9       40.1      32.08      7.93     24.99
  44.8       45.0      32.16      7.90     25.06
  49.8       50.0      32.24      7.92     25.12     3.90
  59.8       60.1      32.33      7.97     25.19
  69.6       70.0      32.41      8.04     25.24
  74.6       75.0      32.43      8.05     25.25     3.76
  79.5       80.0      32.47      8.08     25.28
  90.4       90.9      32.51      8.12     25.31
 100.4      101.0      32.53      8.15     25.32     3.87
 110.3      110.9      32.56      8.18     25.34
 119.1      119.8      32.59      8.20     25.35

CRUISE NO:     3 ALBERNI PROGRAM                    TAPE: U01166    -048
LAT   N 48 48.20                                    LONG W 125 14.40
DATE 18/ 4/79                                       PASS NO.  7
TIME (PST) 2238                                     STN: A10

 DEPTH      PRESS       SAL       TEMP    SIGMA-T
   2.0        2.1      30.85      8.65     23.93
   4.9        5.0      31.30      8.47     24.30
  10.0       10.0      31.65      8.28     24.61
  15.0       15.0      31.77      8.21     24.71
  20.1       20.2      31.88      8.15     24.81
  24.9       25.1      32.02      8.11     24.92
  29.8       30.0      32.06      8.20     24.94
  34.8       35.0      32.12      8.19     24.98
  37.7       37.9      32.11      8.18     24.98
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COASTAL ZONE OCEANOGRAPHY
CRUISE NO:     3 ALBERNI PROGRAM           TAPE: U01166   -049
LAT  N 48 50.05                            LONG W 125 15.80
DATE 18/ 4/79                              PASS NO.  9
TIME (PST) 2303                            STN: A14

 DEPTH     PRESS      SAL       TEMP    SIGMA-T   OXYGEN
    .1        .1     30.68      8.67     23.79
   3.8       3.8     31.37      8.41     24.37
   4.9       4.9     31.45      8.39     24.43
  10.1      10.2     31.62      8.26     24.58
  14.9      15.0     31.66      8.24     24.62
  19.8      19.9     31.81      8.16     24.75
  24.9      25.1     31.93      8.11     24.85
  29.8      30.0     32.10      8.06     24.99
  34.9      35.0     32.13      8.05     25.01
  39.7      39.9     32.19      8.06     25.06
  44.8      45.0     32.21      8.05     25.08
  49.7      49.9     32.22      8.01     25.09    5.70
  59.8      60.1     32.30      8.04     25.15
  69.6      70.0     32.46      8.10     25.27
  74.5      74.9     32.48      8.10     25.28    5.39
  80.5      80.9     32.51      8.08     25.31
  90.3      90.8     32.51      8.07     25.31    5.39
  96.6      97.1     32.52      8.06     25.32

CRUISE NO:     3 ALBERNI PROGRAM           TAPE: U01166   -050
LAT  N 48 54.15                            LONG W 125 12.95
DATE 18/ 4/79                              PASS NO. 11
TIME (PST) 2354                            STN: A13

 DEPTH     PRESS      SAL       TEMP    SIGMA-T
    .2        .2     27.72      9.52     21.35
   2.0       2.0     28.26      9.44     21.78
   5.0       5.0     31.01      8.51     24.07
  10.0      10.0     31.55      8.16     24.54
  14.9      15.0     31.63      8.05     24.63
  19.9      19.9     31.79      8.17     24.73
  24.8      24.9     31.88      8.15     24.80
  29.8      29.9     31.95      8.11     24.86
  34.9      35.1     32.00      8.05     24.91
  39.8      40.0     32.03      7.87     24.97
  44.8      45.0     32.12      7.88     25.03
  49.7      50.0     32.19      7.92     25.08
  59.6      59.9     32.30      7.98     25.16
  69.5      69.9     32.46      8.11     25.27
  79.5      80.0     32.55      8.17     25.33
  90.4      90.9     32.60      8.16     25.37
  99.4     100.0     32.66      8.15     25.41
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COASTAL ZONE OCEANOGRAPHY
CRUISE NO:     3 ALBERNI PROGRAM                    TAPE: U01166    -051
LAT  N 48 58.20                                     LONG W 125  7.80
DATE 19/ 4/79                                       PASS NO. 13
TIME (PST) 0042                                     STN: A12

 DEPTH      PRESS       SAL       TEMP     SIGMA-T    OXYGEN
    .2         .2     25.98       9.80      19.95
   2.0        2.0     26.83       9.66      20.63
   5.0        5.0     29.67       8.93      22.96
  10.0       10.0     31.36       8.31      24.37
  15.0       15.1     31.67       8.13      24.64
  20.0       20.1     31.74       8.13      24.70
  24.8       25.0     31.78       8.08      24.74
  29.8       30.0     31.83       8.09      24.78
  34.9       35.0     31.94       7.88      24.89
  39.8       40.0     31.99       7.83      24.94
  44.9       45.1     32.10       7.88      25.02
  49.8       50.0     32.16       7.90      25.06     5.17
  59.7       60.0     32.33       8.01      25.18
  69.7       70.0     32.45       8.09      25.26
  74.6       75.0     32.52       8.14      25.31     5.19
  79.6       80.0     32.55       8.15      25.33
  89.5       90.0     32.61       8.18      25.37     5.25
  92.2       92.7     32.64       8.19      25.40
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COASTAL ZONE OCEANOGRAPHY

CRUISE NO: 3 ALBERNI PROGRAM
TAPE: U01166 -052
LAT N 48 57.72
LONG W 125 4.48
DATE 19/ 4/79
PASS NO. 15
TIME (PST) 0125
STN: A11

DEPTH	PRESS	SAL	TEMP	SIGMA-T
.3	.3	18.50	9.81	14.13
1.9	1.9	22.16	10.04	16.94
5.0	5.0	30.28	8.55	23.50
10.1	10.1	31.39	8.10	24.43
15.0	15.0	31.59	8.06	24.59
20.0	20.1	31.73	8.04	24.70
25.0	25.1	31.77	8.00	24.74
29.8	30.0	31.86	7.96	24.82
34.8	35.0	31.95	7.91	24.90
39.8	40.0	32.08	7.90	25.00
44.8	45.0	32.13	7.90	25.04
49.7	49.9	32.17	7.92	25.07
59.8	60.1	32.30	7.96	25.16
69.6	70.0	32.48	8.12	25.28
79.6	80.0	32.50	8.12	25.29
90.5	91.0	32.59	8.17	25.36
100.4	101.0	32.61	8.19	25.37
110.3	110.9	32.62	8.19	25.38
120.3	121.0	32.63	8.19	25.39
130.2	131.0	32.64	8.19	25.39
140.2	141.0	32.64	8.19	25.39
150.1	151.0	32.64	8.19	25.40
160.0	161.0	32.64	8.19	25.40
170.0	171.0	32.65	8.19	25.40
171.0	172.1	32.65	8.19	25.40

COASTAL ZONE OCEANOGRAPHY
CRUISE NO: 3 ALBERNI PROGRAM
LAT N 48 57.02
DATE 19/ 4/79
TIME (PST) 0158

TAPE: U01166 -053
LONG W 125 1.30
PASS NO. 17
STN: A7

DEPTH	PRESS	SAL	TEMP	SIGMA-T	OXYGEN
.5	.5	21.75	9.61	16.68	
2.3	2.3	22.90	9.48	17.60	
5.0	5.0	30.45	8.25	23.67	
10.0	10.0	31.44	8.04	24.48	
15.0	15.0	31.61	8.00	24.61	
19.9	20.0	31.72	8.00	24.70	
24.9	25.0	31.77	7.98	24.74	
29.8	30.0	31.89	7.90	24.85	
34.9	35.1	31.96	7.85	24.91	
39.8	40.0	32.03	7.80	24.97	
44.7	45.0	32.09	7.83	25.02	
49.8	50.0	32.19	7.89	25.09	5.28
59.7	60.0	32.31	7.96	25.17	
69.6	70.0	32.42	8.07	25.24	
79.5	80.0	32.44	8.09	25.25	
89.6	90.1	32.47	8.12	25.27	
100.4	101.0	32.52	8.16	25.31	
110.4	111.0	32.56	8.19	25.33	
120.3	121.0	32.58	8.19	25.35	
130.2	131.0	32.59	8.18	25.35	
140.2	141.0	32.60	8.19	25.36	
150.1	151.0	32.61	8.19	25.37	
160.0	161.0	32.62	8.20	25.38	
170.0	171.0	32.63	8.20	25.38	
179.8	180.9	32.63	8.20	25.38	
189.5	190.7	32.64	8.21	25.39	

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COASTAL ZONE OCEANOGRAPHY

CRUISE NO:     3 ALBERNI PROGRAM          TAPE: U01166    -054
LAT  N 48 58.78                           LONG W 124 57.80
DATE 19/ 4/79                             PASS NO. 19
TIME (PST) 0239                           STN: A6

 DEPTH     PRESS       SAL       TEMP    SIGMA-T
    .1        .1     14.46       9.34     11.05
   2.5       2.5     22.64       9.30     17.42
   5.0       5.0     30.34       8.12     23.61
  10.1      10.1     31.46       7.99     24.50
  15.0      15.0     31.63       7.98     24.64
  20.0      20.1     31.73       7.95     24.71
  25.0      25.0     31.77       7.95     24.74
  29.9      30.0     31.83       7.91     24.80
  34.8      34.9     31.92       7.81     24.89
  39.8      40.0     32.04       7.83     24.98
  44.8      45.0     32.09       7.83     25.02
  49.8      50.0     32.16       7.86     25.06
  59.7      60.0     32.30       7.95     25.17
  69.6      70.0     32.38       8.00     25.22
  79.6      80.0     32.44       8.05     25.26
  89.6      90.0     32.48       8.11     25.28
 100.5     101.0     32.52       8.14     25.31
 110.3     111.0     32.56       8.19     25.33
 120.3     121.0     32.58       8.21     25.35
 130.3     131.0     32.60       8.23     25.36
 140.2     141.0     32.61       8.23     25.37
 150.1     151.0     32.63       8.23     25.38
 160.0     161.0     32.64       8.22     25.39
 169.9     170.9     32.65       8.22     25.40
 173.8     174.8     32.66       8.22     25.40
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COASTAL ZONE OCEANOGRAPHY
CRUISE NO:     3 ALBERNI PROGRAM                TAPE: U01166    -055
LAT  N 48 59.58                                 LONG W 124 53.38
DATE 19/ 4/79                                   PASS NO. 21
TIME (PST) 0328                                 STN: A5

 DEPTH      PRESS       SAL       TEMP     SIGMA-T    OXYGEN
    .3         .3      20.29      8.87      15.64
   2.0        2.0      23.07      8.82      17.82
   5.0        5.0      29.06      8.19      22.59
   9.9        9.9      31.20      7.99      24.29
  14.9       15.0      31.55      7.95      24.57
  19.9       20.0      31.64      7.94      24.65
  24.8       24.9      31.76      7.91      24.74
  29.9       30.0      31.80      7.85      24.79
  34.9       35.1      31.87      7.79      24.85
  39.9       40.1      31.92      7.78      24.89
  44.8       45.0      32.06      7.92      24.98
  49.7       50.0      32.09      7.87      25.01      4.45
  59.7       60.0      32.25      7.93      25.13
  69.7       70.0      32.39      8.01      25.22
  74.6       75.0      32.42      8.04      25.24      4.54
  79.6       80.0      32.44      8.06      25.26
  89.6       90.1      32.48      8.09      25.28
 100.4      100.9      32.51      8.13      25.30      4.44
 110.4      111.0      32.55      8.19      25.33
 120.4      121.0      32.58      8.21      25.34
 125.3      126.0      32.58      8.21      25.35      4.61
 130.2      130.9      32.59      8.22      25.35
 140.2      141.0      32.62      8.23      25.37
 150.2      151.1      32.63      8.23      25.38      4.23
 160.1      161.0      32.65      8.24      25.40
 170.1      171.1      32.69      8.24      25.42
 180.0      181.1      32.72      8.24      25.45
 189.9      191.0      32.74      8.24      25.47
 199.8      201.0      32.75      8.24      25.48      1.92
 224.7      226.0      32.76      8.24      25.48
 250.5      252.0      32.77      8.24      25.49      1.76
 275.3      277.0      32.77      8.24      25.49      1.78
 290.1      291.9      32.77      8.25      25.49
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COASTAL ZONE OCEANOGRAPHY

CRUISE NO: 3 ALBERNI PROGRAM
LAT N 49 2.70
DATE 19/ 4/79
TIME (PST) 0453

TAPE: U01166 -056
LONG W 124 51.11
PASS NO. 23
STN: A4

DEPTH	PRESS	SAL	TEMP	SIGMA-T
.2	.2	12.54	8.22	9.67
2.0	2.0	16.44	8.94	12.63
5.0	5.0	29.27	8.09	22.77
10.1	10.1	31.30	7.85	24.39
15.0	15.0	31.54	7.88	24.58
19.9	19.9	31.72	7.87	24.72
25.0	25.0	31.76	7.90	24.75
29.9	30.0	31.87	7.98	24.83
34.9	35.0	31.99	7.99	24.92
39.8	39.9	32.09	8.01	24.99
44.7	44.9	32.15	8.01	25.03
49.7	49.9	32.19	7.90	25.09
59.7	60.0	32.36	8.01	25.20
69.6	69.9	32.43	8.10	25.24
79.6	80.0	32.48	8.14	25.27
89.6	90.1	32.51	8.17	25.30
100.5	101.0	32.53	8.19	25.31
110.4	111.0	32.55	8.20	25.32
120.4	121.1	32.58	8.23	25.34
130.3	131.0	32.59	8.24	25.34
140.2	141.0	32.61	8.28	25.36
150.1	151.0	32.64	8.32	25.38
160.1	161.0	32.66	8.35	25.39
170.1	171.1	32.70	8.34	25.42
179.9	180.9	32.74	8.31	25.45
189.8	190.9	32.76	8.28	25.47
199.8	201.0	32.76	8.26	25.48
224.8	226.1	32.77	8.27	25.48
250.5	252.0	32.77	8.26	25.49
275.2	277.0	32.77	8.26	25.49
288.1	289.9	32.78	8.26	25.49

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COASTAL ZONE OCEANOGRAPHY
CRUISE NO:     3 ALBERNI PROGRAM              TAPE: U01166    -057
LAT  N 49  5.50                               LONG W 124 49.50
DATE 19/ 4/79                                 PASS NO. 25
TIME (PST) 0543                               STN: A3

 DEPTH      PRESS       SAL       TEMP    SIGMA-T
    .4         .4      13.60      8.59     10.46
   2.0        2.0      15.42      8.63     11.87
   5.0        5.0      27.79      8.11     21.61
  10.0       10.0      31.32      7.88     24.40
  15.0       15.0      31.63      7.82     24.66
  19.9       20.0      31.75      7.87     24.74
  24.9       24.9      31.81      7.92     24.78
  29.8       29.9      31.88      7.96     24.83
  34.9       35.0      31.97      8.00     24.90
  39.9       40.0      32.01      8.01     24.93
  44.8       45.0      32.11      8.02     25.00
  49.8       50.0      32.14      8.02     25.03
  59.7       60.0      32.24      8.02     25.10
  69.7       70.0      32.29      8.03     25.14
  79.6       80.0      32.30      8.04     25.15
  90.6       91.0      32.30      8.04     25.15
 100.5      101.0      32.30      8.04     25.15
 110.4      110.9      32.31      8.04     25.15
 120.0      120.7      32.31      8.04     25.16
 120.0      120.7      32.31      8.04     25.16
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COASTAL ZONE OCEANOGRAPHY

CRUISE NO: 3 ALBERNI PROGRAM
LAT N 49 7.15
DATE 19/ 4/79
TIME (PST) 0609

TAPE: U01166 -058
LONG W 124 48.80
PASS NO. 28
STN: A2

DEPTH	PRESS	SAL	TEMP	SIGMA-T	OXYGEN
.9	.9	13.43	8.64	10.32	
2.0	2.0	16.01	8.71	12.33	
5.1	5.0	29.74	8.02	23.14	
10.0	10.0	31.36	7.92	24.43	
15.0	15.0	31.61	7.92	24.63	
19.9	20.0	31.79	7.95	24.76	
24.9	25.0	31.85	7.97	24.81	
29.9	30.0	31.93	8.00	24.87	
34.9	35.1	31.97	8.01	24.90	
39.8	39.9	31.99	8.05	24.91	
44.8	45.0	32.02	8.11	24.92	
49.9	50.1	32.04	8.08	24.94	3.55
59.7	60.0	32.06	8.04	24.97	
69.6	69.9	32.08	8.04	24.98	
74.7	75.0	32.08	8.04	24.98	3.67
79.6	80.0	32.09	8.03	24.99	
89.5	89.9	32.10	8.03	25.00	
100.4	100.9	32.11	8.03	25.00	3.69
110.4	111.0	32.12	8.03	25.01	
120.3	121.0	32.12	8.03	25.01	
124.4	125.1	32.12	8.03	25.01	3.69
130.4	131.1	32.13	8.03	25.02	
139.3	140.1	32.14	8.04	25.02	

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COASTAL ZONE OCEANOGRAPHY
CRUISE NO:     3 ALBERNI PROGRAM             TAPE: U01166    -059
LAT   N 49   9.91                            LONG W 124 48.62
DATE 19/ 4/79                                PASS NO. 29
TIME (PST) 0701                              STN: A1

 DEPTH      PRESS        SAL        TEMP    SIGMA-T
    .3         .3       9.45        8.29      7.25
   2.1        2.1      11.90        8.72      9.12
   5.1        5.0      28.91        7.96     22.51
  10.0       10.0      31.24        7.92     24.33
  15.0       15.0      31.61        8.02     24.61
  20.0       20.0      31.73        8.07     24.70
  24.9       25.0      31.85        8.12     24.79
  29.8       29.9      31.94        8.16     24.85
  34.9       35.0      32.00        8.16     24.89
  39.8       40.0      32.02        8.16     24.92
  44.8       45.0      32.04        8.10     24.94
  49.7       50.0      32.05        8.02     24.95
  59.8       60.0      32.06        7.99     24.97
  69.7       70.0      32.08        8.00     24.98
  79.5       79.9      32.09        8.01     24.99
  89.7       90.1      32.11        8.01     25.00
 100.4      100.9      32.11        8.02     25.01
 110.4      111.0      32.12        8.04     25.01
 110.4      111.0      32.12        8.04     25.01

CRUISE NO:     3 ALBERNI PROGRAM             TAPE: U01166    -060
LAT   N 49 12.16                             LONG W 124 49.02
DATE 19/ 4/79                                PASS NO. 31
TIME (PST) 0727                              STN: A0

 DEPTH      PRESS        SAL        TEMP    SIGMA-T
    .2         .2       6.93        8.43      5.27
   2.0        2.0       7.45        8.65      5.65
   4.9        4.9      28.19        7.96     21.94
  10.0       10.0      31.16        7.93     24.27
  15.0       15.0      31.52        8.02     24.54
  20.0       20.0      31.70        8.07     24.67
  24.8       24.9      31.79        8.09     24.74
  29.9       30.0      31.87        8.13     24.80
  34.8       34.9      31.93        8.16     24.84
  39.9       40.0      31.97        8.17     24.87
  44.9       45.0      32.00        8.18     24.89
  49.9       50.0      32.03        8.16     24.92
  59.8       60.0      32.04        8.08     24.94
  59.8       60.0      32.04        8.08     24.94
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COASTAL ZONE OCEANOGRAPHY
CRUISE NO:     4 ALBERNI PROGRAM            TAPE: U01166   -061
LAT  N 49 12.16                             LONG W 124 49.02
DATE 20/ 5/79                               PASS NO. 21
TIME (PST) 1404                             STN: A0

 DEPTH     PRESS      SAL      TEMP    SIGMA-T
    .2        .2      9.26     13.84     6.41
   2.0       2.0     13.18     12.83     9.58
   5.1       5.1     28.77      9.41    22.18
  10.0      10.0     30.86      8.68    23.93
  15.0      15.0     31.28      8.40    24.30
  19.9      20.0     31.48      8.16    24.49
  24.9      24.9     31.65      8.11    24.63
  30.0      30.1     32.74      8.27    25.46
  34.9      35.0     32.90      8.15    25.60
  37.5      37.6     32.98      8.08    25.68

CRUISE NO:     4 ALBERNI PROGRAM            TAPE: U01166   -062
LAT  N 49  9.91                             LONG W 124 48.62
DATE 20/ 5/79                               PASS NO. 23
TIME (PST) 1431                             STN: A1

 DEPTH     PRESS      SAL      TEMP    SIGMA-T
    .3        .3      8.45     14.48     5.69
   2.1       2.0     17.15     11.90    12.79
   5.0       5.0     30.35      9.12    23.46
  10.0      10.0     31.15      8.68    24.16
  15.0      15.0     31.39      8.51    24.37
  20.0      20.1     31.50      8.28    24.49
  24.9      25.0     31.63      8.18    24.61
  30.0      30.1     31.73      8.12    24.69
  34.8      34.9     31.81      8.09    24.75
  39.8      40.0     31.87      8.09    24.80
  44.8      45.0     31.93      8.09    24.85
  49.8      50.0     31.96      8.09    24.87
  59.8      60.1     31.99      8.08    24.90
  69.6      69.9     32.02      8.07    24.93
  79.6      80.0     32.05      8.06    24.95
  89.6      90.1     32.06      8.05    24.96
  92.6      93.0     32.07      8.04    24.97
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COASTAL ZONE OCEANOGRAPHY
CRUISE NO: 4 ALBERNI PROGRAM
LAT N 49 7.15
DATE 20/ 5/79
TIME (PST) 1511

TAPE: U01166 -063
LONG W 124 48.80
PASS NO. 25
STN: A2

DEPTH	PRESS	SAL	TEMP	SIGMA-T	OXYGEN
2.0	2.0	20.50	12.06	15.35	
5.0	5.0	30.31	9.28	23.41	
10.0	10.0	31.32	8.70	24.29	
14.9	15.0	31.55	8.58	24.48	
19.9	20.0	31.66	8.48	24.59	
24.9	25.0	31.82	8.34	24.73	
29.8	29.9	31.88	8.29	24.78	
35.0	35.1	31.91	8.22	24.81	
39.8	40.0	31.94	8.20	24.85	
44.8	45.0	31.97	8.19	24.87	
49.8	50.0	31.99	8.17	24.89	3.24
59.8	60.1	32.03	8.16	24.92	
69.6	69.9	32.05	8.14	24.94	
74.6	75.0	32.06	8.13	24.95	3.38
79.6	80.0	32.07	8.13	24.96	
89.6	90.0	32.08	8.11	24.97	
99.5	100.1	32.09	8.08	24.98	3.58
110.4	111.0	32.09	8.06	24.98	
120.4	121.1	32.09	8.05	24.99	
125.3	126.0	32.09	8.05	24.99	3.28
130.3	131.0	32.09	8.05	24.99	
132.1	132.8	32.10	8.04	24.99	

CRUISE NO: 4 ALBERNI PROGRAM
LAT N 49 5.50
DATE 20/ 5/79
TIME (PST) 1601

TAPE: U01166 -064
LONG W 124 49.50
PASS NO. 27
STN: A3

DEPTH	PRESS	SAL	TEMP	SIGMA-T
.3	.3	10.53	14.37	7.30
2.1	2.1	15.52	12.85	11.38
5.0	5.0	30.90	9.06	23.90
10.0	10.0	31.43	8.70	24.37
15.0	15.0	31.76	8.40	24.67
20.0	20.0	31.87	8.28	24.78
25.0	25.1	31.96	8.16	24.87
29.9	30.0	32.02	8.12	24.92
34.9	35.0	32.08	8.09	24.97
39.8	40.0	32.22	8.04	25.08
44.8	44.9	32.25	8.04	25.11
49.8	50.0	32.25	8.04	25.11
59.7	60.0	32.26	8.04	25.12
69.6	70.0	32.32	8.05	25.17
79.7	80.1	32.32	8.05	25.16
89.5	90.0	32.33	8.05	25.17
100.5	101.0	32.34	8.06	25.18
101.4	101.9	32.34	8.06	25.18

COASTAL ZONE OCEANOGRAPHY
CRUISE NO: 4 ALBERNI PROGRAM
LAT N 49 2.70
DATE 20/ 5/79
TIME (PST) 1640

TAPE: U01166 -065
LONG W 124 51.11
PASS NO. 30
STN: A4

DEPTH	PRESS	SAL	TEMP	SIGMA-T
.5	.5	18.38	12.71	13.61
2.0	2.0	25.64	10.86	19.52
4.9	4.9	30.55	9.31	23.59
9.9	9.9	31.47	8.86	24.38
15.0	15.1	31.65	8.41	24.59
19.9	20.0	31.82	8.15	24.75
25.0	25.1	31.98	8.10	24.89
29.8	29.9	32.07	8.04	24.97
34.8	35.0	32.16	8.02	25.04
39.8	40.0	32.26	8.01	25.13
44.8	45.1	32.37	8.04	25.20
49.7	50.0	32.42	8.07	25.24
59.7	60.0	32.45	8.09	25.26
69.6	69.9	32.48	8.11	25.28
79.6	80.0	32.50	8.12	25.29
90.5	91.0	32.51	8.15	25.30
100.4	101.0	32.52	8.16	25.31
110.4	111.0	32.54	8.18	25.32
120.3	121.0	32.56	8.21	25.33
130.2	131.0	32.58	8.24	25.35
140.2	141.0	32.61	8.26	25.36
150.1	151.0	32.63	8.27	25.38
160.1	161.0	32.67	8.28	25.41
170.1	171.1	32.69	8.28	25.42
179.9	181.0	32.71	8.27	25.44
189.8	190.9	32.73	8.26	25.45
199.8	201.0	32.73	8.25	25.46
224.6	225.9	32.74	8.25	25.46
250.5	252.0	32.74	8.26	25.46
275.3	277.1	32.74	8.26	25.46
276.1	277.8	32.74	8.26	25.46

COASTAL ZONE OCEANOGRAPHY

CRUISE NO: 4 ALBERNI PROGRAM
LAT N 48 59.58
DATE 20/ 5/79
TIME (PST) 1728

TAPE: U01166 -066
LONG W 124 53.38
PASS NO. 32
STN: A5

DEPTH	PRESS	SAL	TEMP	SIGMA-T	OXYGEN
.2	.2	19.12	12.92	14.15	
2.0	2.0	29.62	9.81	22.79	
5.0	5.1	30.79	9.46	23.76	
10.0	10.1	31.43	9.07	24.31	
15.0	15.0	31.70	8.23	24.65	
19.8	19.9	31.80	8.12	24.75	
24.8	24.9	31.91	8.06	24.84	
29.9	30.1	31.99	8.03	24.91	
34.9	35.0	32.09	8.01	24.99	
39.8	40.0	32.16	8.01	25.04	
44.8	45.1	32.28	8.02	25.14	
49.7	50.0	32.35	8.04	25.19	4.13
59.6	59.9	32.45	8.09	25.26	
69.6	70.0	32.48	8.11	25.28	
74.5	74.9	32.49	8.12	25.29	4.07
79.5	79.9	32.50	8.12	25.29	
90.4	90.9	32.51	8.14	25.30	
100.5	101.0	32.53	8.15	25.31	4.17
110.4	111.0	32.53	8.16	25.32	
120.4	121.1	32.55	8.17	25.32	
125.2	126.0	32.55	8.18	25.33	4.09
130.2	131.0	32.56	8.18	25.33	
140.2	141.0	32.58	8.19	25.35	
150.1	151.0	32.59	8.20	25.35	3.79
160.1	161.0	32.61	8.21	25.37	
170.0	171.0	32.64	8.22	25.39	
179.9	181.0	32.66	8.23	25.41	
189.8	190.9	32.69	8.24	25.42	
199.8	201.0	32.73	8.25	25.46	2.10
224.6	226.0	32.73	8.25	25.46	
250.4	251.9	32.73	8.25	25.46	1.93
275.2	277.0	32.74	8.26	25.46	
300.1	302.0	32.73	8.26	25.46	1.91
324.9	327.0	32.74	8.26	25.46	
338.9	341.2	32.73	8.26	25.46	

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COASTAL ZONE OCEANOGRAPHY
CRUISE NO:    4 ALBERNI PROGRAM          TAPE: U01166   -067
LAT  N 48 58.78                          LONG W 124 57.80
DATE 20/ 5/79                            PASS NO. 34
TIME (PST) 1841                          STN: A6

 DEPTH     PRESS      SAL       TEMP    SIGMA-T
    .5        .5     16.16     14.26     11.63
   2.0       2.0     19.76     13.08     14.61
   5.0       4.9     30.75      9.59     23.71
  10.0      10.0     31.53      8.69     24.45
  15.0      15.1     31.73      8.28     24.67
  20.0      20.0     31.87      8.20     24.79
  24.9      25.0     31.94      8.09     24.86
  29.8      30.0     32.03      8.06     24.94
  34.9      35.0     32.13      8.08     25.01
  39.8      40.0     32.25      8.07     25.11
  44.8      45.0     32.33      8.07     25.17
  49.8      50.0     32.38      8.08     25.21
  59.8      60.1     32.45      8.09     25.26
  69.6      70.0     32.47      8.10     25.28
  79.7      80.1     32.49      8.10     25.29
  89.5      90.0     32.51      8.12     25.30
  99.5     100.1     32.53      8.14     25.32
 110.4     111.0     32.56      8.19     25.33
 120.4     121.0     32.57      8.21     25.34
 130.3     131.0     32.59      8.26     25.34
 140.2     141.0     32.60      8.27     25.36
 150.1     150.9     32.61      8.27     25.36
 160.1     161.1     32.61      8.20     25.37
 170.0     171.0     32.63      8.21     25.38
 179.9     181.0     32.65      8.22     25.40
 184.9     186.0     32.65      8.22     25.40
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COASTAL ZONE OCEANOGRAPHY

CRUISE NO:     4 ALBERNI PROGRAM           TAPE: U01166    -068
LAT  N 48 57.02                            LONG W 125  1.30
DATE 20/ 5/79                              PASS NO. 36
TIME (PST) 1910                            STN: A7

 DEPTH     PRESS      SAL      TEMP    SIGMA-T    OXYGEN
    .4        .4     22.87    13.02     17.02
   1.9       1.9     26.26    12.14     19.79
   5.0       5.0     30.20    10.04     23.20
  10.0      10.0     31.39     8.91     24.31
  14.9      15.0     31.63     8.37     24.57
  19.8      19.9     31.84     8.28     24.76
  25.0      25.1     31.96     8.20     24.86
  29.9      30.0     32.00     8.15     24.90
  34.8      34.9     32.12     8.12     25.00
  39.9      40.1     32.24     8.11     25.10
  44.8      45.0     32.33     8.12     25.16
  49.8      50.1     32.35     8.13     25.18     4.13
  59.7      60.0     32.40     8.15     25.21
  69.6      69.9     32.48     8.15     25.27
  74.7      75.1     32.49     8.18     25.28     4.05
  79.6      80.0     32.50     8.18     25.29
  89.5      90.0     32.51     8.21     25.29
 100.4     101.0     32.53     8.21     25.30     4.05
 110.4     111.0     32.53     8.22     25.31
 120.3     121.0     32.55     8.26     25.32
 125.2     125.9     32.56     8.27     25.32     4.06
 130.2     130.9     32.60     8.30     25.35
 140.1     141.0     32.61     8.31     25.36
 150.2     151.0     32.62     8.32     25.36     4.11
 160.1     161.0     32.63     8.33     25.37
 170.0     171.0     32.63     8.33     25.36
 179.9     181.0     32.63     8.33     25.37
 189.9     191.0     32.64     8.34     25.37
 199.8     201.0     32.64     8.34     25.38     4.23
 221.6     222.9     32.65     8.34     25.38
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COASTAL ZONE OCEANOGRAPHY
CRUISE NO:     4 ALBERNI PROGRAM              TAPE: U01166    -069
LAT  N 48 57.72                               LONG W 125   4.48
DATE 20/ 5/79                                 PASS NO. 37
TIME (PST) 2000                               STN: A11

 DEPTH      PRESS       SAL        TEMP     SIGMA-T
   2.0        2.0      27.30      13.25      20.40
   5.1        5.1      27.96      12.22      21.10
   9.9       10.0      31.61       9.10      24.45
  14.9       15.0      31.76       8.66      24.64
  19.9       20.0      31.85       8.42      24.74
  24.9       25.0      31.92       8.23      24.82
  29.9       30.1      32.03       8.10      24.93
  34.8       35.0      32.15       8.07      25.03
  39.8       40.0      32.39       8.09      25.21
  44.8       45.0      32.45       8.14      25.25
  49.8       50.0      32.52       8.25      25.29
  59.7       60.0      32.57       8.32      25.32
  69.5       69.9      32.58       8.33      25.33
  79.6       80.0      32.59       8.33      25.34
  89.6       90.1      32.64       8.35      25.38
 100.5      101.1      32.67       8.36      25.39
 110.4      111.0      32.68       8.36      25.40
 120.4      121.0      32.69       8.36      25.41
 130.3      131.1      32.70       8.36      25.42
 140.2      141.0      32.71       8.36      25.42
 149.1      150.0      32.71       8.36      25.43

CRUISE NO:     4 ALBERNI PROGRAM              TAPE: U01166    -070
LAT  N 48 58.20                               LONG W 125   7.80
DATE 20/ 5/79                                 PASS NO. 39
TIME (PST) 2030                               STN: A12

 DEPTH      PRESS       SAL        TEMP     SIGMA-T    OXYGEN
   2.0        2.0      27.86      12.23      21.01
   5.0        5.0      28.37      11.98      21.45
  10.0       10.0      31.35       9.67      24.16
  14.9       15.0      31.57       9.11      24.42
  19.9       20.0      31.82       8.33      24.73
  24.9       25.0      31.92       8.16      24.84
  30.0       30.1      32.08       8.07      24.98
  34.8       35.0      32.24       8.05      25.10
  39.8       40.0      32.35       8.06      25.19
  44.8       45.0      32.41       8.08      25.23
  49.8       50.0      32.46       8.10      25.27     4.32
  59.7       60.0      32.51       8.14      25.30
  69.6       70.0      32.59       8.27      25.35
  74.6       75.0      32.65       8.33      25.38     3.93
  78.5       79.0      32.68       8.35      25.40
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COASTAL ZONE OCEANOGRAPHY
CRUISE NO:     4 ALBERNI PROGRAM          TAPE: U01166   -071
LAT  N 48 54.15                           LONG W 125 12.95
DATE 20/ 5/79                             PASS NO. 41
TIME (PST) 2125                           STN: A13

 DEPTH     PRESS      SAL      TEMP    SIGMA-T
    .4        .4     28.78    12.79    21.62
   1.9       1.9     30.01    11.83    22.75
   5.0       5.0     30.34    11.57    23.05
   9.9       9.9     31.66    10.11    24.33
  15.0      15.0     31.74     9.27    24.52
  19.9      20.0     31.91     8.75    24.74
  24.9      25.0     32.18     8.90    24.93
  29.8      30.0     32.23     8.57    25.02
  34.9      35.1     32.32     8.43    25.11
  39.8      40.0     32.38     8.35    25.17
  44.8      45.0     32.45     8.36    25.22
  49.8      50.0     32.56     8.42    25.29
  59.7      60.1     32.65     8.38    25.37
  69.6      70.0     32.68     8.34    25.40
  79.5      80.0     32.73     8.29    25.45
  90.3      90.8     32.82     8.23    25.53
  90.3      90.8     32.82     8.23    25.53

CRUISE NO:     4 ALBERNI PROGRAM          TAPE: U01166   -072
LAT  N 48 50.05                           LONG W 125 15.80
DATE 20/ 5/79                             PASS NO. 43
TIME (PST) 2136                           STN: A14

 DEPTH     PRESS      SAL      TEMP    SIGMA-T    OXYGEN
    .3        .3     29.66    12.28    22.39
   2.1       2.1     29.66    12.29    22.39
   5.0       5.0     30.13    11.90    22.83
  10.0      10.0     31.74     9.17    24.54
  15.1      15.1     31.88     8.74    24.71
  19.9      20.0     32.04     9.03    24.80
  24.9      25.0     32.19     8.84    24.95
  29.9      30.0     32.31     8.75    25.05
  34.9      35.1     32.42     8.63    25.16
  39.9      40.1     32.45     8.60    25.18
  44.8      45.0     32.45     8.60    25.18
  49.8      50.0     32.51     8.54    25.24     4.36
  59.6      59.9     32.54     8.50    25.27
  69.6      70.0     32.65     8.36    25.38
  74.6      75.0     32.68     8.33    25.41     4.56
  80.4      80.9     32.74     8.28    25.46
  80.4      80.9     32.74     8.28    25.46
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COASTAL ZONE OCEANOGRAPHY
CRUISE NO:     4 ALBERNI PROGRAM              TAPE: U01166   -073
LAT  N 48 48.20                               LONG W 125 14.40
DATE 20/ 5/79                                 PASS NO. 45
TIME (PST) 2230                               STN: A10

 DEPTH      PRESS       SAL       TEMP    SIGMA-T
    .0         .0      30.23     11.15     23.04
   2.1        2.1      30.22     11.16     23.03
   4.9        4.9      31.36      9.91     24.14
   9.9       10.0      32.15      9.06     24.88
  14.9       15.0      32.20      8.93     24.94
  19.9       20.0      32.26      8.83     25.00
  24.9       25.0      32.34      8.75     25.08
  29.8       30.0      32.45      8.63     25.18
  73.6       74.0      32.68      8.33     25.40
  73.6       74.0      32.68      8.33     25.40

CRUISE NO:     4 ALBERNI PROGRAM              TAPE: U01166   -074
LAT  N 48 51.50                               LONG W 125  8.10
DATE 21/ 5/79                                 PASS NO. 47
TIME (PST) 2317                               STN: A9

 DEPTH      PRESS       SAL       TEMP    SIGMA-T    OXYGEN
    .3         .3      28.59     12.07     21.60
   2.0        2.0      28.73     11.93     21.74
   5.0        5.0      29.75     11.13     22.67
  10.0       10.0      31.61      8.90     24.49
  15.0       15.1      31.75      8.45     24.66
  19.9       20.0      31.86      8.19     24.79
  24.9       25.0      32.12      8.12     24.92
  29.8       30.0      32.07      8.09     24.96
  34.8       35.0      32.12      8.01     25.01
  39.8       40.0      32.24      8.02     25.10
  44.8       45.0      32.33      8.05     25.17
  49.7       50.0      32.38      8.07     25.21     3.46
  59.7       60.0      32.45      8.11     25.26
  69.7       70.0      32.47      8.12     25.27
  74.5       74.9      32.48      8.12     25.28     3.57
  79.5       79.9      32.50      8.13     25.29
  90.5       91.0      32.51      8.15     25.30
 100.4      100.9      32.52      8.15     25.31     3.80
 110.3      110.9      32.54      8.16     25.32
 120.3      121.0      32.55      8.18     25.33
 123.1      123.9      32.55      8.18     25.33
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COASTAL ZONE OCEANOGRAPHY
CRUISE NO:     4 ALBERNI PROGRAM                TAPE: U01166    -075
LAT   N 48 53.78                                LONG W 125   3.05
DATE 21/ 5/79                                   PASS NO. 49
TIME (PST) 0015                                 STN: A8

 DEPTH       PRESS       SAL        TEMP     SIGMA-T
    .1          .1      23.85      13.19      17.74
   1.9         1.9      27.44      12.05      20.72
   5.1         5.1      30.69      10.31      23.54
  10.0        10.0      31.69       8.74      24.57
  15.0        15.0      31.80       8.41      24.70
  19.9        20.0      31.91       8.23      24.82
  24.9        25.0      32.00       8.08      24.91
  29.8        29.9      32.10       8.06      24.99
  34.8        35.0      32.15       8.03      25.04
  39.8        40.0      32.25       8.02      25.11
  44.8        45.1      32.32       8.03      25.16
  49.8        50.1      32.36       8.05      25.19
  59.7        60.0      32.43       8.08      25.24
  69.6        70.0      32.45       8.09      25.26
  79.6        80.1      32.49       8.11      25.29
  90.4        90.9      32.51       8.12      25.30
 100.5       101.0      32.53       8.14      25.31
 110.4       111.0      32.56       8.17      25.33
 120.3       121.0      32.57       8.18      25.34
 130.2       131.0      32.57       8.19      25.34
 140.2       141.0      32.59       8.19      25.35
 150.1       151.0      32.59       8.20      25.36
 151.8       152.7      32.59       8.20      25.36
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COASTAL ZONE OCEANOGRAPHY

CRUISE NO:     4 ALBERNI PROGRAM          TAPE: U01166    -076
LAT  N 48 57.02                           LONG W 125  1.30
DATE 20/ 5/79                             PASS NO. 51
TIME (PST) 0054                           STN: A7

 DEPTH      PRESS      SAL      TEMP     SIGMA-T
    .3         .3     18.82     13.79     13.76
   1.6        1.6     23.65     12.45     17.72
   5.0        5.0     29.19     10.54     22.34
  10.0       10.0     31.48      8.93     24.37
  15.0       15.0     31.71      8.30     24.65
  19.9       20.0     31.86      8.34     24.76
  24.9       25.0     31.97      8.20     24.87
  29.9       30.1     32.10      8.12     24.98
  35.0       35.1     32.15      8.12     25.02
  39.9       40.1     32.29      8.10     25.14
  44.9       45.1     32.35      8.10     25.18
  49.7       50.0     32.39      8.11     25.21
  59.8       60.1     32.43      8.12     25.24
  69.6       70.0     32.48      8.14     25.28
  79.6       80.1     32.52      8.18     25.30
  90.4       90.9     32.53      8.19     25.31
 100.3      100.9     32.55      8.22     25.32
 110.4      111.0     32.56      8.25     25.32
 120.3      121.0     32.59      8.27     25.34
 130.3      131.0     32.59      8.28     25.34
 140.1      140.9     32.60      8.30     25.35
 150.1      150.9     32.63      8.31     25.37
 160.1      161.0     32.63      8.32     25.37
 170.1      171.1     32.63      8.32     25.37
 179.9      181.0     32.64      8.32     25.38
 189.8      191.0     32.64      8.33     25.38
 199.8      201.0     32.65      8.33     25.38
 215.6      216.9     32.65      8.34     25.38
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COASTAL ZONE OCEANOGRAPHY
CRUISE NO:     5 ALBERNI PROGRAM                    TAPE: U01166    -077
LAT  N 49  9.91                                     LONG W 124 48.62
DATE 21/ 6/79                                       PASS NO.  3
TIME (PST) 0745                                     STN: A1

  DEPTH      PRESS       SAL        TEMP      SIGMA-T
     .3         .3      10.07      15.86       6.69
    2.0        2.0      14.09      15.45       9.84
    5.1        5.1      26.64      10.51      20.36
   10.0       10.0      31.57       8.74      24.47
   15.0       15.0      31.90       8.16      24.82
   20.0       20.0      32.03       8.10      24.93
   25.0       25.1      32.15       8.12      25.02
   29.8       29.9      32.20       8.12      25.06
   34.9       35.0      32.24       8.12      25.09
   39.9       40.1      32.28       8.13      25.12
   44.8       45.0      32.30       8.13      25.14
   49.8       50.0      32.31       8.13      25.15
   59.8       60.0      32.33       8.14      25.16
   69.6       69.9      32.34       8.16      25.17
   79.6       80.0      32.36       8.16      25.18
   89.6       90.0      32.37       8.17      25.19
  100.5      101.0      32.38       8.17      25.19
  110.4      110.9      32.39       8.18      25.20
  110.4      110.9      32.39       8.18      25.20
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COASTAL ZONE OCEANOGRAPHY

CRUISE NO:     5 ALBERNI PROGRAM           TAPE: U01166    -078
LAT  N 49  7.15                            LONG W 124 48.80
DATE 21/ 6/79                              PASS NO.  5
TIME (PST) 0829                            STN: A2

 DEPTH      PRESS       SAL       TEMP     SIGMA-T   OXYGEN
    .3         .3     13.00      15.48      9.00
   1.9        1.9     15.57      14.97     11.06
   5.1        5.1     26.75      10.78     20.40
  10.0       10.0     31.55       9.04     24.42
  15.1       15.1     32.03       8.48     24.87
  20.0       20.1     32.12       8.34     24.96
  24.9       24.9     32.12       8.22     24.98
  29.9       30.0     32.14       8.18     25.00
  34.9       35.0     32.19       8.12     25.05
  39.8       40.0     32.21       8.12     25.07
  44.9       45.1     32.24       8.12     25.10
  49.7       49.9     32.27       8.12     25.12     3.54
  59.7       60.0     32.31       8.13     25.15
  69.9       70.2     32.32       8.14     25.15
  74.7       75.0     32.33       8.15     25.16     3.49
  79.7       80.1     32.34       8.16     25.17
  89.5       90.0     32.36       8.16     25.18
 100.5      101.0     32.37       8.17     25.19     3.46
 110.3      110.9     32.38       8.17     25.19
 120.3      121.0     32.39       8.17     25.20
 125.3      126.0     32.39       8.17     25.20     3.38
 129.3      130.0     32.38       8.17     25.20
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COASTAL ZONE OCEANOGRAPHY
CRUISE NO:     5 ALBERNI PROGRAM                  TAPE: UD1166    -079
LAT   N 49   5.50                                 LONG W 124 49.50
DATE 21/ 6/79                                     PASS NO.   7
TIME (PST) 0852                                   STN: A3

  DEPTH      PRESS       SAL       TEMP     SIGMA-T
     .5         .5      16.52      14.89     11.80
    2.0        2.0      18.29      14.32     13.26
    5.0        5.0      28.37      10.45     21.71
    9.9        9.9      31.78       9.38     24.54
   15.0       15.0      31.92       8.61     24.77
   20.1       20.1      32.21       8.24     25.05
   24.9       25.0      32.25       8.22     25.08
   29.9       30.0      32.26       8.22     25.09
   34.9       35.0      32.29       8.20     25.12
   39.8       40.0      32.34       8.19     25.16
   44.9       45.1      32.35       8.19     25.17
   49.7       50.0      32.38       8.18     25.19
   59.7       60.0      32.55       8.20     25.32
   69.7       70.1      32.55       8.20     25.32
   79.6       80.0      32.57       8.21     25.33
   89.6       90.0      32.57       8.21     25.34
  100.5      101.0      32.58       8.21     25.34
  109.3      109.9      32.59       8.22     25.35
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COASTAL ZONE OCEANOGRAPHY

CRUISE NO:     5 ALBERNI PROGRAM          TAPE: U01166    -080
LAT  N 49  2.70                           LONG W 124 51.11
DATE 21/ 6/79                             PASS NO.  9
TIME (PST) 0920                           STN: A4

 DEPTH      PRESS       SAL       TEMP    SIGMA-T
    .2         .2      19.13     14.31     13.91
   2.0        2.0      29.36     10.26     22.51
   5.0        5.0      31.15      9.61     24.01
  10.0       10.0      31.87      9.79     24.54
  14.9       14.9      31.94      8.74     24.77
  19.8       19.9      32.00      8.24     24.89
  24.9       25.0      32.13      8.19     25.00
  29.9       30.1      32.23      8.17     25.08
  34.7       34.9      32.36      8.17     25.18
  39.7       39.9      32.41      8.15     25.22
  44.8       45.0      32.48      8.13     25.28
  49.9       50.1      32.53      8.17     25.31
  59.7       60.0      32.65      8.25     25.40
  69.6       70.0      32.70      8.25     25.43
  79.7       80.1      32.74      8.24     25.47
  89.5       90.1      32.77      8.22     25.49
 100.4      101.0      32.80      8.20     25.52
 110.3      111.0      32.82      8.19     25.54
 120.2      120.9      32.84      8.18     25.55
 130.3      131.0      32.86      8.17     25.57
 140.2      141.0      32.87      8.17     25.58
 150.0      151.0      32.88      8.16     25.59
 160.0      161.0      32.89      8.16     25.60
 170.0      171.1      32.90      8.16     25.60
 180.0      181.1      32.91      8.15     25.61
 189.8      191.0      32.91      8.15     25.61
 199.7      201.0      32.92      8.15     25.62
 224.6      226.0      32.92      8.14     25.62
 250.3      251.9      32.92      8.15     25.62
 275.3      277.1      32.93      8.14     25.63
 290.0      291.9      32.93      8.14     25.63
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COASTAL ZONE OCEANOGRAPHY
CRUISE NO: 5 ALBERNI PROGRAM
LAT N 48 59.58
DATE 21/ 6/79
TIME (PST) 1030

TAPE: U01166 -081
LONG W 124 53.38
PASS NO. 11
STN: A5

DEPTH	PRESS	SAL	TEMP	SIGMA-T	OXYGEN
.4	.4	22.32	13.54	16.50	
2.0	2.0	23.43	13.04	17.44	
5.0	5.0	30.65	10.78	23.43	
10.1	10.1	31.79	10.27	24.41	
15.0	15.0	32.04	9.49	24.73	
19.9	20.0	32.09	8.56	24.91	
24.8	25.0	32.14	8.16	25.00	
29.8	29.9	32.19	8.16	25.05	
34.9	35.1	32.25	8.14	25.10	
39.9	40.1	32.33	8.11	25.16	
44.9	45.1	32.40	8.10	25.22	
49.8	50.0	32.50	8.14	25.29	3.34
59.7	60.0	32.61	8.22	25.37	
69.7	70.1	32.66	8.24	25.40	
74.6	75.0	32.69	8.25	25.43	2.93
79.5	80.0	32.70	8.25	25.44	
90.5	91.0	32.75	8.23	25.48	
100.4	101.0	32.78	8.21	25.50	3.09
110.3	111.0	32.84	8.18	25.55	
120.2	120.9	32.84	8.18	25.55	
125.3	126.0	32.84	8.18	25.56	3.06
130.2	131.0	32.85	8.18	25.56	
140.2	141.0	32.87	8.17	25.58	
150.3	151.2	32.87	8.17	25.58	2.97
160.0	161.0	32.87	8.16	25.58	
170.0	171.1	32.88	8.16	25.59	
179.8	180.9	32.89	8.16	25.59	
189.7	190.9	32.90	8.15	25.60	
199.7	201.0	32.90	8.15	25.61	2.99
224.8	226.2	32.90	8.15	25.61	
250.4	252.0	32.91	8.15	25.62	2.87
275.1	276.9	32.92	8.15	25.62	
299.9	301.9	32.92	8.15	25.62	2.26
324.9	327.0	32.94	8.14	25.64	
324.9	327.0	32.94	8.14	25.64	

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COASTAL ZONE OCEANOGRAPHY

CRUISE NO:     5 ALBERNI PROGRAM              TAPE: U01166    -082
LAT  N 48 58.78                               LONG W 124 57.80
DATE 21/ 6/79                                 PASS NO. 13
TIME (PST) 1107                               STN: A6

 DEPTH     PRESS      SAL      TEMP    SIGMA-T
    .3        .3     21.24     14.45    15.50
   2.0       2.0     22.57     13.82    16.64
   5.1       5.1     30.49     11.16    23.24
   9.9       9.9     31.85     10.24    24.45
  14.9      15.0     31.96      9.94    24.59
  19.9      20.0     32.07      9.44    24.76
  24.9      25.0     32.11      8.95    24.87
  29.8      30.0     32.17      8.21    25.03
  34.8      34.9     32.22      8.16    25.07
  39.9      40.1     32.40      8.13    25.21
  44.7      45.0     32.46      8.13    25.26
  49.9      50.1     32.50      8.15    25.29
  59.7      60.0     32.60      8.21    25.36
  69.6      70.0     32.66      8.24    25.40
  79.6      80.1     32.70      8.24    25.43
  89.6      90.1     32.74      8.24    25.47
 100.5     101.0     32.77      8.22    25.49
 110.3     110.9     32.81      8.19    25.53
 120.4     121.1     32.84      8.18    25.55
 130.3     131.1     32.87      8.17    25.58
 140.2     141.1     32.92      8.13    25.62
 150.0     150.9     32.99      8.08    25.68
 160.0     160.9     33.03      8.04    25.72
 164.9     165.9     33.03      8.03    25.73
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COASTAL ZONE OCEANOGRAPHY
CRUISE NO:     5 ALBERNI PROGRAM            TAPE: U01166    -083
LAT  N 48 57.02                             LONG W 125  1.30
DATE 21/ 6/79                               PASS NO. 15
TIME (PST) 1201                             STN: A7

 DEPTH      PRESS       SAL      TEMP    SIGMA-T   OXYGEN
    .8         .8     22.93     13.93     16.90
   2.0        2.0     24.52     13.24     18.25
   4.9        4.9     30.66     11.56     23.31
  10.0       10.0     31.98      9.98     24.60
  15.0       15.0     32.04      9.91     24.66
  20.0       20.0     32.16      9.17     24.87
  24.9       25.1     32.25      8.40     25.06
  29.8       29.9     32.24      8.29     25.07
  34.9       35.0     32.28      8.20     25.11
  39.8       40.0     32.39      8.13     25.21
  44.9       45.1     32.49      8.15     25.29
  49.7       49.9     32.55      8.18     25.32     3.54
  59.7       60.0     32.60      8.21     25.36
  69.6       69.9     32.68      8.23     25.42
  74.6       75.0     32.69      8.23     25.43     3.03
  80.5       81.0     32.71      8.23     25.45
  90.4       90.9     32.74      8.22     25.47
 100.5      101.1     32.79      8.21     25.51     3.04
 110.3      111.0     32.83      8.18     25.54
 120.3      121.0     32.86      8.17     25.57
 125.1      125.8     32.87      8.16     25.58     2.91
 130.3      131.0     32.88      8.15     25.59
 140.4      141.2     32.91      8.12     25.62
 150.1      151.0     32.93      8.10     25.64     2.70
 159.9      160.9     33.01      8.05     25.70
 170.0      171.0     33.02      8.04     25.72
 179.9      181.0     33.02      8.04     25.71
 189.8      191.0     33.02      8.04     25.71
 199.8      201.1     33.04      8.03     25.73     2.62
 224.6      226.0     33.04      8.03     25.73
 239.4      241.0     33.04      8.03     25.73
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COASTAL ZONE OCEANOGRAPHY

CRUISE NO: 5 ALBERNI PROGRAM
LAT N 48 57.72
DATE 21/ 6/79
TIME (PST) 1242

TAPE: U01166 -084
LONG W 125 4.48
PASS NO. 17
STN: A11

DEPTH	PRESS	SAL	TEMP	SIGMA-T
.4	.4	24.02	14.17	17.69
2.0	2.0	24.79	13.76	18.36
5.0	5.0	30.53	11.53	23.21
10.0	10.0	31.95	10.45	24.50
14.9	15.0	32.08	10.05	24.66
20.0	20.1	32.20	9.43	24.86
24.9	25.0	32.21	8.86	24.96
29.9	30.0	32.27	8.58	25.04
34.9	35.0	32.28	8.38	25.09
39.8	40.0	32.33	8.35	25.13
44.9	45.1	32.43	8.18	25.23
49.8	50.0	32.51	8.24	25.29
59.7	60.0	32.57	8.20	25.34
69.6	70.0	32.72	8.22	25.45
79.6	80.0	32.85	8.15	25.57
89.6	90.1	33.07	8.00	25.76
100.5	101.0	33.11	7.95	25.80
110.3	111.0	33.12	7.93	25.81
120.3	121.0	33.12	7.93	25.81
130.3	131.1	33.13	7.93	25.82
140.1	141.0	33.13	7.93	25.82
150.2	151.1	33.13	7.93	25.82
159.1	160.1	33.13	7.93	25.82

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COASTAL ZONE OCEANOGRAPHY
CRUISE NO:     5 ALBERNI PROGRAM                TAPE: U01166   -085
LAT   N 48 58.20                                LONG W 125   7.80
DATE 21/ 6/79                                   PASS NO. 19
TIME (PST) 1333                                 STN: A12

 DEPTH      PRESS       SAL       TEMP     SIGMA-T    OXYGEN
    .9         .9      25.95      15.25     18.96
   2.1        2.1      27.50      14.03     20.40
   5.0        5.0      30.67      11.53     23.32
  10.0       10.0      31.97       9.87     24.61
  15.0       15.0      32.13       9.20     24.85
  19.9       20.0      32.23       9.23     24.92
  25.0       25.1      32.27       8.92     25.00
  29.8       29.9      32.28       8.70     25.02
  34.8       35.0      32.29       8.67     25.05
  39.7       39.9      32.33       8.58     25.09
  44.8       45.0      32.41       8.66     25.15
  49.7       50.0      32.45       8.40     25.22     3.74
  59.7       60.0      32.55       8.23     25.32
  69.7       70.1      32.76       8.19     25.49
  74.5       74.9      32.86       8.14     25.57     2.80
  80.5       80.9      33.02       8.06     25.72
  84.6       85.1      33.08       8.00     25.77     2.57
  90.4       90.9      33.16       7.88     25.85
  90.4       90.9      33.16       7.88     25.85

CRUISE NO:     5 ALBERNI PROGRAM                TAPE: U01166   -086
LAT   N 48 54.15                                LONG W 125 12.95
DATE 21/ 6/79                                   PASS NO. 21
TIME (PST) 1421                                 STN: A13

 DEPTH      PRESS       SAL       TEMP     SIGMA-T
    .2         .2      28.11      15.13     20.65
   2.1        2.1      28.28      14.96     20.81
   5.0        5.0      31.73      11.38     24.17
   9.9       10.0      32.01      10.39     24.56
  15.0       15.1      32.16       9.76     24.78
  19.9       20.0      32.20       9.59     24.84
  25.1       25.2      32.30       9.23     24.97
  29.9       30.1      32.36       9.18     25.03
  34.9       35.1      32.39       8.83     25.10
  39.9       40.1      32.41       8.79     25.12
  44.8       45.0      32.43       8.45     25.20
  49.8       50.1      32.47       8.37     25.24
  59.6       59.9      32.57       8.24     25.33
  69.6       70.0      32.81       8.19     25.53
  79.5       80.0      33.03       8.05     25.72
  90.3       90.8      33.12       7.92     25.81
  90.3       90.8      33.12       7.92     25.81
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COASTAL ZONE OCEANOGRAPHY
CRUISE NO:     5 ALBERNI PROGRAM            TAPE: U01166   -087
LAT  N 48 50.05                             LONG W 125 15.80
DATE 21/ 6/79                               PASS NO. 23
TIME (PST) 1509                             STN: A14

 DEPTH      PRESS      SAL       TEMP    SIGMA-T   OXYGEN
    .2         .2     31.37     12.03     23.77
   2.0        2.0     31.39     12.20     23.75
   4.9        5.0     31.77     11.11     24.24
  10.0       10.1     32.17     10.24     24.70
  14.9       15.0     32.14      9.79     24.76
  19.9       20.0     32.25      9.42     24.90
  24.9       25.0     32.30      9.20     24.97
  29.9       30.0     32.31      9.15     24.99
  34.8       35.0     32.39      8.92     25.09
  39.8       40.0     32.43      8.85     25.13
  44.8       45.1     32.46      8.67     25.18
  49.6       49.9     32.48      8.61     25.20     3.84
  59.6       59.9     32.56      8.27     25.32
  69.6       70.0     32.71      8.24     25.44
  74.6       75.0     32.84      8.19     25.56     3.29
  79.5       80.0     32.87      8.16     25.58
  90.5       91.1     32.93      8.12     25.64
 100.4      101.0     33.05      7.99     25.74     2.64
 106.3      106.9     33.08      7.96     25.77

CRUISE NO:     5 ALBERNI PROGRAM            TAPE: U01166   -088
LAT  N 48 48.20                             LONG W 125 14.40
DATE 21/ 6/79                               PASS NO. 25
TIME (PST) 1539                             STN: A10

 DEPTH      PRESS      SAL       TEMP    SIGMA-T
    .2         .2     31.21     12.92     23.48
   2.1        2.1     31.19     12.93     23.46
   5.4        5.4     31.64     11.79     24.02
  10.6       10.7     32.13      9.86     24.73
  15.0       15.0     32.25      9.25     24.93
  19.9       20.0     32.27      9.23     24.94
  25.1       25.2     32.30      9.13     24.99
  29.9       30.0     32.33      9.05     25.02
  34.9       35.0     32.36      9.01     25.05
  41.1       41.3     32.45      8.86     25.14
  41.6       41.9     32.45      8.85     25.15
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COASTAL ZONE OCEANOGRAPHY
CRUISE NO:    5 ALBERNI PROGRAM          TAPE: UD1166   -089
LAT  N 48 51.50                          LONG W 125  8.10
DATE 21/ 6/79                            PASS NO. 27
TIME (PST) 1635                          STN: A9

 DEPTH     PRESS      SAL      TEMP    SIGMA-T   OXYGEN
    .2        .2    29.55     14.47    21.89
   2.0       2.0    31.01     12.37    23.43
   4.9       5.0    31.81     10.95    24.31
  10.0      10.1    32.08     10.03    24.67
  14.8      14.9    32.16      9.64    24.79
  19.9      20.0    32.17      9.58    24.81
  24.9      25.0    32.27      9.04    24.98
  29.8      29.9    32.29      8.79    25.03
  34.7      34.9    32.42      8.70    25.15
  39.9      40.1    32.43      8.47    25.19
  44.8      45.0    32.56      8.19    25.33
  49.7      50.0    32.57      8.20    25.34     3.17
  59.6      60.0    32.62      8.21    25.37
  69.7      70.1    32.70      8.23    25.43
  74.6      75.0    32.72      8.23    25.45     3.12
  79.6      80.0    32.73      8.23    25.46
  89.6      90.1    32.76      8.21    25.49
 100.2     100.8    32.77      8.21    25.49     3.12
 110.3     111.0    32.84      8.18    25.55
 120.2     120.9    32.87      8.17    25.58
 125.3     126.0    32.88      8.16    25.59     2.89
 130.1     130.9    32.91      8.15    25.61
 130.1     130.9    32.91      8.15    25.61
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COASTAL ZONE OCEANOGRAPHY

CRUISE NO: 5 ALBERNI PROGRAM
LAT N 48 53.78
DATE 21/ 6/79
TIME (PST) 1713

TAPE: U01166 -090
LONG W 125 3.05
PASS NO. 29
STN: A8

DEPTH	PRESS	SAL	TEMP	SIGMA-T
.2	.2	26.94	15.11	19.75
2.0	2.0	29.07	13.59	21.70
5.1	5.1	31.58	10.78	24.15
10.0	10.0	32.00	10.23	24.57
15.0	15.0	32.07	9.91	24.68
20.0	20.1	32.10	9.35	24.79
24.8	24.9	32.16	8.48	24.97
29.9	30.1	32.20	8.37	25.02
34.7	34.9	32.26	8.28	25.08
39.8	40.0	32.42	8.20	25.22
44.9	45.1	32.49	8.18	25.28
49.7	49.9	32.51	8.18	25.30
59.8	60.1	32.65	8.23	25.40
69.7	70.0	32.69	8.23	25.42
79.6	80.1	32.72	8.23	25.45
89.5	90.0	32.75	8.22	25.47
100.4	101.0	32.78	8.20	25.50
110.3	111.0	32.83	8.18	25.54
120.4	121.1	32.85	8.17	25.57
130.3	131.0	32.87	8.17	25.58
140.2	141.0	32.91	8.14	25.62
150.1	151.0	32.95	8.12	25.65
160.0	161.0	32.97	8.11	25.66
169.8	170.9	33.00	8.08	25.69
175.6	176.7	33.00	8.08	25.69

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COASTAL ZONE OCEANOGRAPHY
CRUISE NO:     5 ALBERNI PROGRAM          TAPE: U01166   -091
LAT  N 48 57.02                           LONG W 125  1.30
DATE 21/ 6/79                             PASS NO. 31
TIME (PST) 1750                           STN: A7

  DEPTH      PRESS       SAL        TEMP    SIGMA-T
     .4         .4      26.89      12.24     20.26
    2.6        2.6      28.35      11.94     21.44
    5.0        5.0      29.77      11.63     22.60
    9.8        9.8      31.07      11.09     23.70
   14.2       14.3      32.06       9.90     24.67
   18.6       18.7      32.16       9.39     24.83
   25.1       25.2      32.14       8.27     24.99
   29.9       30.0      32.20       8.30     25.04
   34.8       34.9      32.30       8.13     25.13
   39.8       40.0      32.37       8.11     25.19
   44.8       45.0      32.42       8.12     25.24
   49.7       50.0      32.51       8.15     25.30
   59.6       59.9      32.63       8.23     25.38
   69.7       70.1      32.70       8.24     25.43
   79.5       80.0      32.72       8.24     25.46
   89.5       90.0      32.77       8.21     25.49
  100.4      100.9      32.80       8.20     25.52
  110.3      110.9      32.82       8.19     25.54
  120.3      121.0      32.86       8.17     25.57
  130.4      131.2      32.88       8.14     25.59
  140.2      141.1      32.93       8.11     25.63
  150.1      151.0      32.98       8.07     25.68
  159.9      160.9      33.01       8.04     25.71
  169.9      170.9      33.03       8.04     25.72
  179.9      181.0      33.03       8.03     25.73
  190.0      191.2      33.03       8.03     25.73
  199.8      201.0      33.04       8.03     25.73
  222.6      224.0      33.04       8.03     25.73

CRUISE NO:     6 ALBERNI PROGRAM          TAPE: U01166   -092
LAT  N 49 12.16                           LONG W 124 49.02
DATE 22/ 8/79                             PASS NO.  0
TIME (PST) 1248                           STN: A0

  DEPTH      PRESS       SAL        TEMP    SIGMA-T

    1.9        2.0      31.84       9.18     24.62
    5.0        5.1      31.90       8.94     24.70
    9.9       10.0      31.98       8.79     24.79
   14.9       15.0      32.03       8.60     24.86
   20.0       20.1      32.09       8.52     24.91
   25.0       25.1      32.14       8.44     24.97
   30.0       30.1      32.19       8.37     25.02
   34.9       35.1      32.21       8.38     25.03
   39.6       39.8      32.23       8.39     25.04
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COASTAL ZONE OCEANOGRAPHY
CRUISE NO:     6 ALBERNI PROGRAM              TAPE: U01166   -093
LAT   N 49   9.91                             LONG W 124 48.62
DATE 22/ 8/79                                 PASS NO.  0
TIME (PST) 1343                               STN: A1

  DEPTH      PRESS       SAL       TEMP    SIGMA-T
     .4         .4     20.18      16.91     14.19
    2.1        2.1     20.77      16.03     14.83
    5.1        5.1     25.30      13.45     18.81
   10.1       10.1     31.65       9.60     24.41
   15.1       15.1     31.92       9.15     24.69
   20.0       20.1     32.05       9.01     24.81
   25.0       25.1     32.11       8.75     24.90
   29.9       30.0     32.16       8.53     24.97
   34.9       35.1     32.21       8.45     25.02
   39.9       40.0     32.24       8.39     25.05
   44.8       45.0     32.26       8.38     25.07
   49.8       50.0     32.30       8.40     25.10
   59.9       60.2     32.34       8.37     25.13
   69.7       70.0     32.35       8.38     25.14
   79.6       80.0     32.36       8.37     25.15
   89.6       90.1     32.38       8.46     25.15
  100.4      100.9     32.41       8.54     25.16
  100.4      100.9     32.41       8.54     25.16

CRUISE NO:     6 ALBERNI PROGRAM              TAPE: U01166   -094
LAT   N 49   7.15                             LONG W 124 48.80
DATE 22/ 8/79                                 PASS NO.  0
TIME (PST) 1502                               STN: A2

  DEPTH      PRESS       SAL       TEMP    SIGMA-T    OXYGEN
     .4         .4     20.39      17.48     14.23
    2.2        2.2     21.63      16.16     15.46
    5.1        5.1     27.18      12.83     20.37
   10.1       10.1     31.81       9.49     24.55
   15.0       15.0     32.10       9.09     24.84
   20.0       20.1     32.18       8.92     24.92
   24.9       25.0     32.21       8.86     24.96
   29.9       30.0     32.26       8.79     25.01
   34.9       35.1     32.28       8.60     25.05
   39.8       40.0     32.28       8.57     25.06
   44.8       45.0     32.31       8.54     25.08
   49.8       50.0     32.35       8.61     25.11     2.21
   59.8       60.1     32.39       8.61     25.14
   68.7       69.1     32.40       8.60     25.15
   74.7       75.1     32.41       8.60     25.15     2.57
   79.7       80.1     32.42       8.59     25.16
   89.5       90.0     32.42       8.59     25.16
   99.6      100.2     32.42       8.59     25.17     2.56
  109.5      110.1     32.43       8.59     25.17
  120.4      121.1     32.44       8.58     25.18
  124.9      125.6     32.44       8.59     25.18
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COASTAL ZONE OCEANOGRAPHY
CRUISE NO:     6 ALBERNI PROGRAM                    TAPE: U01166   -095
LAT  N 49  5.50                                     LONG W 124 49.50
DATE 22/ 8/79                                       PASS NO.  0
TIME (PST) 1534                                     STN: A3

  DEPTH      PRESS       SAL       TEMP     SIGMA-T
     .3         .3     20.55      17.78      14.29
    2.0        2.0     21.08      17.46      14.77
    5.1        5.1     26.95      13.32      20.11
   10.0       10.0     31.59       9.89      24.31
   15.0       15.0     31.90       9.56      24.61
   21.1       21.1     32.03       9.36      24.74
   24.9       25.0     32.13       9.13      24.85
   29.9       30.0     32.19       9.00      24.92
   34.8       35.0     32.25       8.89      24.98
   39.9       40.1     32.33       8.74      25.07
   44.9       45.1     32.35       8.69      25.09
   49.8       50.0     32.42       8.61      25.16
   59.8       60.1     32.69       8.31      25.42
   69.7       70.0     32.75       8.25      25.47
   79.6       80.0     32.76       8.23      25.48
   89.5       90.0     32.77       8.23      25.49
   98.2       98.7     32.77       8.23      25.49
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COASTAL ZONE OCEANOGRAPHY

CRUISE NO: 6 ALBERNI PROGRAM
TAPE: U01166 -096
LAT N 49 2.70
LONG W 124 51.11
DATE 22/ 8/79
PASS NO. 0
TIME (PST) 1612
STN: A4

DEPTH	PRESS	SAL	TEMP	SIGMA-T
.3	.3	23.92	16.82	17.07
2.1	2.1	24.12	16.62	17.27
5.1	5.1	26.84	14.15	19.87
10.1	10.1	31.04	10.86	23.72
14.9	14.9	31.95	10.58	24.48
20.0	20.1	32.06	10.06	24.65
25.0	25.1	32.12	9.60	24.77
29.9	30.0	32.16	9.20	24.87
34.9	35.1	32.23	9.00	24.96
39.9	40.0	32.29	8.98	25.00
45.0	45.2	32.33	8.76	25.07
49.9	50.1	32.40	8.74	25.13
59.9	60.2	32.56	8.54	25.28
69.7	70.0	32.76	8.22	25.48
79.7	80.1	32.84	8.17	25.55
89.6	90.1	32.89	8.13	25.60
99.5	100.1	32.92	8.09	25.63
110.5	111.1	32.94	8.07	25.65
120.8	121.5	32.94	8.07	25.65
130.3	131.0	32.96	8.12	25.66
140.3	141.1	32.98	8.19	25.66
150.2	151.1	32.99	8.20	25.67
160.1	161.1	33.01	8.21	25.68
170.0	171.0	33.00	8.21	25.68
180.0	181.1	33.01	8.20	25.68
189.9	191.1	33.02	8.19	25.69
199.8	201.0	33.02	8.19	25.69
224.7	226.1	33.03	8.16	25.71
247.1	248.7	33.05	8.15	25.72

COASTAL ZONE OCEANOGRAPHY
CRUISE NO: 6 ALBERNI PROGRAM
LAT N 48 59.58
DATE 22/ 8/79
IME (PST) 1707

TAPE: U01166 -097
LONG W 124 53.38
PASS NO. 0
STN: A5

DEPTH	PRESS	SAL	TEMP	SIGMA-T	OXYGEN
.4	.4	24.28	18.52	16.96	
2.1	2.1	27.10	15.55	19.78	
5.1	5.1	29.88	13.75	22.29	
10.1	10.1	31.88	11.12	24.33	
15.0	15.0	32.05	10.52	24.57	
20.0	20.1	32.10	10.17	24.66	
25.0	25.1	32.17	9.86	24.77	
29.9	30.0	32.22	9.55	24.85	
34.8	35.0	32.30	9.20	24.98	
39.9	40.1	32.44	9.10	25.10	
44.8	45.1	32.54	8.89	25.22	
49.8	50.0	32.57	8.47	25.30	2.51
59.8	60.1	32.74	8.26	25.46	
69.7	70.0	32.84	8.17	25.56	
74.7	75.1	32.86	8.15	25.58	2.40
79.7	80.1	32.86	8.15	25.57	
89.5	90.0	32.92	8.10	25.62	
99.4	100.0	32.94	8.09	25.64	2.33
110.5	111.1	32.95	8.09	25.65	
120.4	121.1	32.95	8.11	25.65	
125.4	126.1	32.97	8.14	25.66	2.06
130.3	131.0	32.98	8.17	25.67	
140.3	141.1	32.98	8.17	25.67	
150.2	151.1	33.00	8.19	25.68	2.00
160.1	161.1	33.00	8.20	25.68	
170.1	171.1	33.02	8.19	25.69	
180.0	181.1	33.02	8.18	25.69	
189.8	191.0	33.03	8.16	25.71	
199.8	201.0	33.02	8.17	25.70	1.95
224.6	226.0	33.05	8.14	25.72	
247.4	249.0	33.05	8.14	25.72	

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COASTAL ZONE OCEANOGRAPHY

CRUISE NO:     6 ALBERNI PROGRAM          TAPE: U01166    -098
LAT  N 48 58.78                           LONG W 124 57.80
DATE 22/ 8/79                             PASS NO.  0
TIME (PST) 1805                           STN: A6

 DEPTH     PRESS      SAL      TEMP    SIGMA-T
   5.1       5.1     31.63     12.10    23.96
  10.1      10.1     31.99     10.86    24.46
  15.1      15.1     32.09     10.54    24.59
  20.0      20.1     32.17     10.20    24.71
  24.9      25.0     32.24      9.73    24.84
  29.9      30.0     32.29      9.52    24.92
  34.9      35.1     32.40      9.25    25.05
  39.8      40.0     32.49      9.06    25.14
  44.8      45.0     32.63      8.72    25.31
  49.8      50.1     32.70      8.39    25.42
  59.7      60.1     32.80      8.23    25.52
  67.3      67.7     32.84      8.18    25.56
  79.7      80.1     32.91      8.12    25.62
  90.5      91.0     32.94      8.11    25.64
 100.5     101.1     32.95      8.11    25.65
 110.3     111.0     32.96      8.11    25.66
 120.3     121.1     32.99      8.14    25.67
 130.3     131.0     33.00      8.17    25.68
 140.3     141.1     33.04      8.14    25.71
 150.1     151.0     33.08      8.09    25.76
 160.1     161.1     33.10      8.06    25.77
 170.0     171.0     33.13      8.02    25.80
 175.8     176.9     33.14      8.02    25.81
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COASTAL ZONE OCEANOGRAPHY
CRUISE NO: 6 ALBERNI PROGRAM
LAT N 48 57.02
DATE 22/ 8/79
TIME (PST) 1841

TAPE: U01166 -099
LONG W 125 1.30
PASS NO. 0
STN: A7

DEPTH	PRESS	SAL	TEMP	SIGMA-T	OXYGEN
1.0	1.0	27.05	17.60	19.29	
2.1	2.1	27.83	16.84	20.06	
5.1	5.1	30.59	13.76	22.83	
10.1	10.1	31.95	11.06	24.39	
15.0	15.0	32.03	10.77	24.51	
20.0	20.1	32.14	10.30	24.67	
25.0	25.1	32.17	10.19	24.71	
30.1	30.2	32.21	10.06	24.76	
34.9	35.1	32.32	9.56	24.93	
39.9	40.1	32.39	9.34	25.02	
44.9	45.1	32.41	9.26	25.05	
49.7	50.0	32.51	9.05	25.17	2.71
59.8	60.1	32.76	8.37	25.46	
69.8	70.1	32.85	8.22	25.55	
74.6	75.0	32.87	8.25	25.57	1.90
79.7	80.1	32.89	8.25	25.58	
89.5	90.0	32.92	8.27	25.61	
100.4	101.0	32.96	8.25	25.64	1.84
110.5	111.1	32.97	8.19	25.65	
120.4	121.1	32.98	8.17	25.66	
125.3	126.0	32.99	8.16	25.67	2.00
130.3	131.0	33.01	8.17	25.69	
140.2	141.0	33.04	8.21	25.70	
150.1	151.0	33.07	8.17	25.74	1.84
160.1	161.1	33.09	8.11	25.76	
170.0	171.0	33.11	8.04	25.79	
180.0	181.1	33.13	8.00	25.81	
190.0	191.2	33.13	8.00	25.81	
192.5	193.7	33.15	7.99	25.82	

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COASTAL ZONE OCEANOGRAPHY

CRUISE NO:    6 ALBERNI PROGRAM          TAPE: U01166   -100
LAT  N 48 57.02                          LONG W 125  1.30
DATE 23/ 8/79                            PASS NO.  0
TIME (PST) 0053                          STN: A7

 DEPTH     PRESS      SAL      TEMP   SIGMA-T
    .4        .4    26.99     16.90    19.40
   2.1       2.1    29.66     14.75    21.91
   5.1       5.2    31.69     11.86    24.05
  10.1      10.1    32.06     10.77    24.53
  15.0      15.0    32.06     10.65    24.55
  20.0      20.1    32.12     10.47    24.63
  24.9      25.0    32.16     10.32    24.68
  29.9      30.0    32.19     10.25    24.72
  34.9      35.1    32.26      9.95    24.82
  39.8      40.0    32.32      9.66    24.92
  44.8      45.0    32.40      9.35    25.03
  49.8      50.1    32.50      9.03    25.16
  59.7      60.1    32.72      8.47    25.42
  69.7      70.1    32.84      8.23    25.54
  79.6      80.0    32.91      8.25    25.60
  90.5      91.0    32.94      8.28    25.62
 100.4     101.0    32.95      8.25    25.63
 110.3     111.0    32.97      8.12    25.66
 120.3     121.1    32.99      8.14    25.68
 130.4     131.1    33.02      8.17    25.69
 140.3     141.1    33.05      8.21    25.71
 150.2     151.1    33.08      8.17    25.74
 160.0     161.0    33.10      8.13    25.76
 170.1     171.1    33.12      8.03    25.80
 179.9     181.0    33.14      8.01    25.82
 190.0     191.2    33.15      7.99    25.82
 199.7     200.9    33.15      7.99    25.83
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COASTAL ZONE OCEANOGRAPHY
CRUISE NO:    6 ALBERNI PROGRAM          TAPE: U01166   -101
LAT  N 48 53.78                          LONG W 125  3.05
DATE 23/ 8/79                            PASS NO.  0
TIME (PST) 0009                          STN: A8

 DEPTH      PRESS      SAL       TEMP    SIGMA-T
   2.1        2.1     29.48     14.83     21.76
   5.0        5.1     31.38     12.14     23.76
  10.0       10.0     31.79     11.35     24.22
  15.1       15.1     31.97     10.89     24.43
  20.0       20.1     32.06     10.68     24.54
  24.9       25.0     32.11     10.54     24.61
  29.9       30.0     32.18     10.24     24.71
  34.9       35.1     32.31      9.64     24.91
  39.9       40.1     32.42      9.23     25.06
  44.8       45.0     32.57      8.77     25.25
  49.8       50.1     32.64      8.57     25.34
  59.7       60.1     32.76      8.34     25.47
  69.8       70.1     32.85      8.25     25.55
  79.7       80.1     32.88      8.24     25.58
  89.6       90.1     32.92      8.25     25.61
  99.5      100.0     32.98      8.25     25.65
 110.3      111.0     33.00      8.25     25.67
 120.4      121.1     33.00      8.24     25.67
 130.4      131.1     33.02      8.23     25.69
 140.2      141.0     33.05      8.21     25.72
 150.1      151.0     33.05      8.21     25.71
 160.1      161.1     33.06      8.20     25.72
 164.0      165.0     33.06      8.20     25.72
```

COASTAL ZONE OCEANOGRAPHY

CRUISE NO: 6 ALBERNI PROGRAM
LAT N 48 51.50
DATE 22/ 8/79
TIME (PST) 2320

TAPE: U01166 -102
LONG W 125 8.10
PASS NO. 0
STN: A9

DEPTH	PRESS	SAL	TEMP	SIGMA-T
1.0	1.0	30.22	14.01	22.50
2.1	2.2	30.82	13.13	23.13
5.0	5.1	31.17	12.50	23.53
10.1	10.1	31.66	11.57	24.08
15.1	15.1	31.81	11.21	24.26
20.0	20.1	31.93	10.89	24.41
25.0	25.1	31.95	10.85	24.43
29.9	30.0	32.05	10.60	24.56
34.9	35.1	32.19	10.22	24.73
39.9	40.1	32.34	9.49	24.96
44.8	45.0	32.42	9.28	25.06
49.8	50.1	32.49	9.04	25.15
59.7	60.1	32.67	8.51	25.37
69.8	70.1	32.80	8.32	25.50
79.7	80.1	32.90	8.24	25.59
89.6	90.1	32.92	8.24	25.61
99.5	100.0	32.96	8.25	25.64
110.4	111.0	32.98	8.26	25.65
120.4	121.1	33.00	8.27	25.66
123.0	123.7	33.01	8.26	25.67

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COASTAL ZONE OCEANOGRAPHY
CRUISE NO:    6 ALBERNI PROGRAM                  TAPE: U01166   -103
LAT  N 48 48.20                                  LONG W 125 14.40
DATE 22/ 8/79                                    PASS NO.  0
TIME (PST) 2230                                  STN: A10

 DEPTH      PRESS       SAL       TEMP     SIGMA-T
    .4         .4      31.56     12.34      23.86
   2.0        2.1      31.59     12.30      23.89
   5.1        5.1      31.65     11.68      24.05
   9.9       10.0      31.72     11.31      24.17
  15.0       15.0      31.77     11.01      24.26
  20.0       20.1      32.03     10.09      24.62
  24.9       25.0      32.20      9.71      24.81
  29.9       30.0      32.38      9.35      25.01
  34.5       34.7      32.53      9.05      25.18
  34.5       34.7      32.53      9.05      25.18

CRUISE NO:    6 ALBERNI PROGRAM                  TAPE: U01166   -104
LAT  N 48 57.72                                  LONG W 125  4.48
DATE 22/ 8/79                                    PASS NO.  0
TIME (PST) 1923                                  STN: A11

 DEPTH      PRESS       SAL       TEMP     SIGMA-T
    .4         .4      27.89     17.82      19.88
   2.0        2.0      29.03     16.87      20.97
   5.0        5.0      30.36     14.69      22.47
  10.1       10.1      31.84     11.75      24.19
  15.1       15.1      31.99     11.09      24.42
  20.0       20.1      32.09     10.65      24.57
  25.1       25.2      32.18     10.29      24.70
  29.9       30.0      32.25     10.03      24.80
  34.9       35.1      32.28      9.86      24.85
  39.9       40.1      32.36      9.60      24.96
  44.8       45.0      32.44      9.28      25.07
  49.8       50.1      32.55      9.02      25.20
  59.7       60.0      32.73      8.54      25.42
  69.7       70.0      32.79      8.40      25.48
  79.7       80.1      32.87      8.28      25.56
  89.6       90.1      32.90      8.24      25.59
  99.5      100.0      32.98      8.16      25.67
 110.4      111.1      33.00      8.14      25.68
 120.4      121.1      33.08      8.06      25.76
 130.4      131.1      33.11      8.03      25.79
 140.2      141.0      33.11      8.03      25.79
 149.8      150.7      33.12      8.03      25.79
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COASTAL ZONE OCEANOGRAPHY
CRUISE NO:     6 ALBERNI PROGRAM          TAPE: U01166   -105
LAT  N 48 58.20                           LONG W 125  7.80
DATE 22/ 8/79                             PASS NO.  0
TIME (PST) 2001                           STN: A12

 DEPTH      PRESS      SAL       TEMP     SIGMA-T   OXYGEN
   1.0        1.0     30.33     15.39     22.29
   2.0        2.1     30.65     14.99     22.62
   5.0        5.1     31.09     13.72     23.23
  10.1       10.1     31.87     11.71     24.21
  15.1       15.1     31.92     11.11     24.36
  17.9       17.9     32.00     10.80     24.48
  25.0       25.1     32.08     10.49     24.60
  29.9       30.0     32.20     10.17     24.74
  34.9       35.1     32.23     10.08     24.77
  39.8       40.0     32.30      9.83     24.87
  44.9       45.1     32.39      9.53     24.99
  49.8       50.1     32.46      9.32     25.08    3.20
  59.7       60.1     32.53      9.00     25.19
  69.7       70.0     32.83      8.35     25.52
  74.7       75.1     32.93      8.22     25.62    1.92
  79.6       80.0     32.99      8.16     25.67
  83.6       84.1     32.99      8.15     25.68

CRUISE NO:     6 ALBERNI PROGRAM          TAPE: U01166   -106
LAT  N 48 54.15                           LONG W 125 12.95
DATE 22/ 8/79                             PASS NO.  0
TIME (PST) 2104                           STN: A13

 DEPTH      PRESS      SAL       TEMP     SIGMA-T
   5.0        5.1     31.56     12.25     23.87
  10.0       10.1     31.75     11.44     24.17
  15.2       15.2     31.95     10.61     24.47
  19.9       20.0     31.96     10.52     24.50
  24.9       25.0     32.01     10.42     24.55
  29.9       30.0     32.14     10.13     24.70
  34.9       35.1     32.22     10.02     24.78
  39.8       40.0     32.32      9.66     24.92
  44.8       45.0     32.42      9.56     25.01
  49.8       50.1     32.47      9.30     25.09
  59.7       60.1     32.55      9.03     25.20
  69.7       70.0     32.75      8.59     25.42
  79.7       80.1     32.86      8.37     25.54
  87.2       87.7     33.09      8.10     25.76
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COASTAL ZONE OCEANOGRAPHY
CRUISE NO:    6 ALBERNI PROGRAM                TAPE: U01166   -107
LAT  N 48 50.05                                LONG W 125 15.80
DATE 22/ 8/79                                  PASS NO.  0
TIME (PST) 2153                                STN: A14

 DEPTH      PRESS       SAL        TEMP     SIGMA-T   OXYGEN
   2.1        2.2     31.57       11.92      23.94
   4.9        5.0     31.56       11.91      23.94
  10.0       10.0     31.76       10.88      24.28
  14.9       14.9     31.81       10.67      24.35
  20.1       20.2     31.97       10.37      24.52
  24.9       25.0     32.05       10.31      24.60
  29.9       30.0     32.18       10.07      24.74
  34.9       35.1     32.31        9.70      24.90
  39.9       40.1     32.47        9.21      25.11
  44.8       45.0     32.59        8.86      25.26
  49.8       50.1     32.63        8.80      25.30    3.14
  59.7       60.1     32.71        8.69      25.37
  69.6       70.0     32.82        8.50      25.49
  74.7       75.2     32.95        8.32      25.62    2.30
  79.7       80.1     33.01        8.24      25.68
  89.6       90.1     33.03        8.23      25.70
  99.1       99.7     33.05        8.21      25.71
CRUISE NO:    7 ALBERNI PROGRAM                TAPE: U01166   -108
LAT  N 49 12.16                                LONG W 124 49.02
DATE  4/10/79                                  PASS NO.  1
TIME (PST) 1131                                STN: A0

 DEPTH      PRESS       SAL        TEMP     SIGMA-T
    .2         .2     21.32       13.58      15.73
   2.1        2.1     24.38       13.13      18.16
   5.0        5.0     30.40       11.96      23.03
   9.9        9.9     31.35       11.35      23.87
  15.0       15.0     31.41       10.99      23.99
  20.0       20.1     31.56       10.65      24.16
  25.0       25.1     31.67       10.38      24.30
  29.8       30.0     31.76       10.10      24.41
  34.9       35.0     31.85        9.88      24.51
  39.9       40.0     31.91        9.69      24.60
  44.9       45.1     31.96        9.52      24.66
  49.7       50.0     32.00        9.39      24.71
  54.8       55.0     32.03        9.28      24.75
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COASTAL ZONE OCEANOGRAPHY
CRUISE NO:     7 ALBERNI PROGRAM              TAPE: U01166   -109
LAT  N 49  9.91                               LONG W 124 48.62
DATE  4/10/79                                 PASS NO.  3
TIME (PST) 1159                               STN: A1

 DEPTH      PRESS       SAL       TEMP    SIGMA-T
    .3         .3     21.80      13.78     16.06
   2.0        2.0     27.14      12.85     20.34
   5.0        5.0     29.63      12.42     22.35
   9.9        9.9     31.47      11.92     23.86
  14.9       15.0     31.50      11.75     23.92
  19.9       20.0     31.59      11.22     24.08
  24.9       25.0     31.60      11.12     24.11
  29.9       30.0     31.68      10.84     24.22
  34.8       35.0     31.76      10.46     24.35
  39.9       40.0     31.78      10.32     24.39
  44.8       45.0     31.83      10.07     24.47
  49.8       50.0     31.93       9.69     24.61
  59.7       60.0     32.08       9.26     24.79
  69.7       70.0     32.18       8.97     24.92
  79.6       80.0     32.30       8.70     25.05
  89.6       90.0     32.33       8.62     25.09
 100.5      101.0     32.36       8.58     25.12
 103.4      104.0     32.37       8.56     25.13

CRUISE NO:     7 ALBERNI PROGRAM              TAPE: U01166   -110
LAT  N 49  7.15                               LONG W 124 48.80
DATE  4/10/79                                 PASS NO.  5
TIME (PST) 1229                               STN: A2

 DEPTH      PRESS       SAL       TEMP    SIGMA-T   OXYGEN
   5.1        5.2     30.37      12.39     22.92
  12.1       12.1     31.53      11.95     23.91
  16.0       16.1     31.66      11.70     24.06
  19.9       20.0     31.77      11.27     24.22
  25.1       25.2     31.90      10.56     24.44
  29.9       30.0     31.92      10.46     24.47
  34.9       35.0     31.97      10.21     24.56
  39.8       40.0     32.02      10.04     24.62
  44.9       45.1     32.07       9.70     24.72
  49.8       50.0     32.10       9.53     24.76    2.62
  59.8       60.1     32.15       9.11     24.87
  69.7       70.0     32.24       8.81     24.99
  73.6       74.0     32.32       8.63     25.08    1.62
  80.4       80.8     32.34       8.60     25.10
  90.6       91.1     32.36       8.57     25.12
 100.1      100.7     32.37       8.55     25.13    1.69
 110.0      110.6     32.38       8.54     25.14
 120.5      121.2     32.38       8.53     25.14
 125.5      126.1     32.39       8.52     25.15    1.58
 130.4      131.1     32.40       8.52     25.16
 135.0      135.7     32.40       8.52     25.16
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COASTAL ZONE OCEANOGRAPHY
CRUISE NO:     7 ALBERNI PROGRAM          TAPE: U01166   -111
LAT  N 49  5.50                           LONG W 124 49.50
DATE  4/10/79                             PASS NO.  7
TIME (PST) 1315                           STN: A3

 DEPTH      PRESS      SAL       TEMP     SIGMA-T
    .2         .2     23.47     13.82     17.33
   2.0        2.0     25.02     13.47     18.60
   5.0        5.0     29.95     12.76     22.53
   9.9        9.9     31.46     12.46     23.76
  14.9       14.9     31.72     12.28     24.00
  20.0       20.1     31.75     11.59     24.15
  24.9       25.0     31.83     11.09     24.29
  29.9       30.0     31.85     10.88     24.35
  34.9       35.0     31.98     10.35     24.54
  39.9       40.1     32.05      9.97     24.66
  44.8       45.0     32.06      9.89     24.68
  49.8       50.0     32.09      9.81     24.71
  59.7       60.0     32.19      9.47     24.85
  69.7       70.0     32.26      9.34     24.92
  79.6       80.0     32.32      9.23     24.99
  89.6       90.0     32.35      9.17     25.02
 100.5      101.0     32.36      9.16     25.03
 110.2      110.7     32.37      9.15     25.04
 111.3      111.9     32.37      9.15     25.04
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COASTAL ZONE OCEANOGRAPHY

CRUISE NO:    7 ALBERNI PROGRAM             TAPE: U01166   -112
LAT  N 49  2.70                             LONG W 124 51.11
DATE  4/10/79                               PASS NO.  9
TIME (PST) 1346                             STN: A4

 DEPTH     PRESS      SAL      TEMP    SIGMA-T
   1.9       1.9     28.33     13.36    21.16
   5.1       5.1     31.08     13.06    23.35
  10.0      10.0     31.60     12.79    23.80
  15.0      15.0     31.71     12.51    23.94
  19.9      20.0     31.80     12.22    24.07
  24.9      25.0     31.85     11.78    24.19
  29.9      30.1     31.87     11.49    24.26
  34.9      35.0     31.91     11.04    24.37
  39.8      40.0     31.93     10.65    24.45
  44.9      45.1     32.00     10.20    24.58
  49.8      50.0     32.05      9.92    24.67
  59.7      60.0     32.15      9.59    24.79
  69.7      70.0     32.35      9.32    24.99
  79.6      80.0     32.69      8.53    25.39
  89.5      89.9     32.80      8.33    25.50
 100.5     101.0     32.85      8.21    25.56
 110.4     111.0     32.90      8.23    25.59
 120.4     121.0     32.92      8.19    25.62
 130.3     131.0     32.94      8.14    25.64
 140.2     141.0     32.95      8.13    25.64
 150.1     150.9     32.98      8.10    25.67
 160.1     161.0     33.00      8.10    25.69
 170.0     171.0     33.02      8.11    25.71
 179.9     181.0     33.03      8.12    25.71
 189.9     191.1     33.05      8.12    25.72
 199.9     201.1     33.06      8.14    25.73
 224.5     225.9     33.06      8.13    25.74
 250.4     252.0     33.07      8.13    25.74
 275.2     277.0     33.08      8.13    25.75
 285.0     286.8     33.08      8.13    25.75
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COASTAL ZONE OCEANOGRAPHY
CRUISE NO:     7 ALBERNI PROGRAM                TAPE: U01166    -113
LAT   N 48 59.58                                LONG W 124 53.38
DATE   4/10/79                                  PASS NO. 11
TIME (PST) 0143                                 STN: A5

 DEPTH      PRESS       SAL       TEMP     SIGMA-T    OXYGEN
    .1         .1      25.08      13.93     18.55
   1.9        2.0      29.43      13.18     22.05
   5.0        5.0      31.19      12.81     23.48
  10.0       10.1      31.41      12.80     23.66
  14.9       14.9      31.72      12.37     23.97
  20.0       20.1      31.88      11.97     24.17
  25.0       25.1      31.95      11.40     24.34
  29.8       30.0      31.96      11.32     24.35
  34.9       35.1      32.03      10.89     24.48
  39.9       40.1      32.06      10.07     24.65
  44.8       45.0      32.12       9.86     24.73
  49.7       49.9      32.32       9.57     24.93     3.11
  59.7       60.0      32.65       8.97     25.28
  69.7       70.0      32.78       8.57     25.45
  74.6       75.0      32.80       8.54     25.47     1.97
  79.6       80.0      32.81       8.52     25.48
  90.5       91.0      32.89       8.44     25.56
 100.4      101.0      32.93       8.38     25.59     1.71
 110.4      111.0      32.96       8.30     25.63
 120.3      121.0      32.98       8.25     25.66
 125.3      126.0      33.00       8.20     25.68     1.78
 130.2      130.9      33.02       8.17     25.69
 140.2      141.0      33.02       8.16     25.70
 150.2      151.0      33.03       8.16     25.71     1.83
 160.1      161.0      33.03       8.15     25.71
 170.0      171.0      33.04       8.14     25.72
 179.9      181.0      33.05       8.14     25.73
 189.9      191.0      33.06       8.13     25.74
 199.7      200.9      33.06       8.13     25.74     1.73
 224.6      226.0      33.07       8.13     25.74
 250.5      252.1      33.07       8.13     25.74     1.82
 275.2      277.0      33.07       8.13     25.75
 300.0      302.0      33.07       8.13     25.75     1.75
 303.9      305.9      33.07       8.13     25.74
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COASTAL ZONE OCEANOGRAPHY

CRUISE NO:     7 ALBERNI PROGRAM            TAPE: U01166    -114
LAT  N 48 58.78                             LONG W 124 57.80
DATE  4/10/79                               PASS NO. 13
TIME (PST) 0000                             STN: A6

 DEPTH     PRESS      SAL       TEMP    SIGMA-T

   1.9       1.9     29.75     13.02     22.33
   5.0       5.0     30.92     12.85     23.27
  10.0      10.0     31.69     12.38     23.95
  15.0      15.1     31.78     12.06     24.08
  20.0      20.1     31.84     11.89     24.16
  24.8      24.9     31.97     11.55     24.32
  29.9      30.0     32.03     11.10     24.45
  34.9      35.1     32.04     10.62     24.54
  39.8      40.0     32.10     10.08     24.68
  44.7      44.9     32.29      9.77     24.88
  49.8      50.0     32.35      9.68     24.94
  59.8      60.1     32.71      8.88     25.35
  69.6      70.0     32.85      8.62     25.50
  79.6      80.0     32.91      8.63     25.54
  89.5      90.0     32.95      8.58     25.58
  99.5     100.1     32.96      8.53     25.60
 110.3     111.0     32.98      8.38     25.64
 120.3     120.9     33.00      8.31     25.66
 130.2     131.0     33.01      8.24     25.68
 140.2     141.0     33.03      8.21     25.70
 150.2     151.1     33.05      8.16     25.72
 160.1     161.1     33.05      8.15     25.72
 169.9     170.9     33.06      8.15     25.73
 179.8     180.9     33.06      8.14     25.73
 185.9     187.0     33.06      8.14     25.73
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COASTAL ZONE OCEANOGRAPHY
CRUISE NO:     7 ALBERNI PROGRAM            TAPE: UC1166    -115
LAT  N 48 57.02                             LONG W 125  1.30
DATE  4/10/79                               PASS NO. 15
TIME (PST) 1634                             STN: A7

  DEPTH      PRESS       SAL        TEMP     SIGMA-T    OXYGEN
     .5         .5      28.41      13.64      21.18
    2.0        2.0      29.71      13.33      22.24
    5.1        5.1      30.91      12.87      23.26
    9.9        9.9      31.61      12.33      23.89
   14.9       15.0      31.75      11.93      24.08
   19.9       19.9      31.76      11.87      24.10
   24.9       25.0      31.83      11.76      24.18
   29.9       30.0      31.93      11.64      24.27
   34.9       35.1      31.99      11.41      24.36
   39.8       40.0      32.06      11.20      24.45
   44.8       45.0      32.11      10.80      24.56
   49.8       50.0      32.20      10.37      24.71      3.62
   59.6       59.9      32.43       9.65      25.00
   69.6       70.0      32.68       9.20      25.27
   74.6       75.0      32.73       9.04      25.34      2.17
   79.7       80.1      32.79       8.97      25.40
   89.6       90.1      32.89       8.74      25.51
  100.4      100.9      32.95       8.65      25.57      1.75
  110.5      111.1      32.97       8.60      25.60
  120.3      121.0      32.99       8.47      25.63
  125.3      126.0      32.99       8.43      25.64      1.61
  130.3      131.0      33.01       8.27      25.68
  140.3      141.1      33.02       8.23      25.68
  150.1      151.0      33.02       8.22      25.69      1.42
  160.0      161.0      33.03       8.19      25.70
  170.0      171.0      33.03       8.18      25.70
  179.9      181.0      33.03       8.18      25.70
  189.8      190.9      33.03       8.18      25.70
  199.8      201.0      33.03       8.18      25.70      1.55
  224.6      226.0      33.04       8.17      25.71
  228.3      229.7      33.04       8.16      25.71
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COASTAL ZONE OCEANOGRAPHY

CRUISE NO:    7 ALBERNI PROGRAM          TAPE: U01166    -116
LAT  N 48 57.72                          LONG W 125  4.48
DATE  4/10/79                            PASS NO. 17
TIME (PST) 1753                          STN: A11

 DEPTH      PRESS       SAL       TEMP    SIGMA-T
    .4         .4      29.79     13.42     22.28
   2.0        2.0      29.82     13.44     22.30
   5.0        5.0      30.17     13.30     22.60
   9.9        9.9      31.21     12.75     23.51
  14.9       14.9      31.67     12.07     23.99
  19.9       20.0      31.72     11.96     24.05
  25.0       25.1      31.75     11.92     24.08
  29.9       30.1      31.83     11.60     24.20
  34.9       35.0      31.91     11.48     24.29
  39.8       40.0      32.02     11.26     24.41
  44.7       44.9      32.06     11.15     24.46
  49.7       49.9      32.13     10.91     24.56
  59.8       60.1      32.28     10.35     24.77
  69.6       69.9      32.58      9.48     25.15
  79.6       80.0      32.76      9.01     25.37
  90.4       90.9      32.84      8.85     25.46
  99.5      100.1      32.90      8.74     25.52
 110.4      111.0      32.93      8.65     25.55
 120.4      121.0      32.93      8.64     25.56
 130.3      131.0      32.93      8.63     25.56
 134.1      134.9      32.93      8.63     25.56
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COASTAL ZONE OCEANOGRAPHY
CRUISE NO:     7 ALBERNI PROGRAM           TAPE: U01166    -117
LAT   N 48 58.20                           LONG W 125   7.80
DATE   4/10/79                             PASS NO. 19
TIME (PST) 1831                            STN: A12

 DEPTH      PRESS       SAL        TEMP     SIGMA-T     OXYGEN
  10.1       10.1      31.34      12.73      23.62
  15.0       15.0      31.43      12.14      23.79
  19.9       19.9      31.63      12.36      23.91
  25.0       25.1      31.74      12.15      24.03
  29.9       30.0      31.75      11.77      24.11
  34.8       35.0      31.84      11.70      24.19
  39.9       40.1      31.90      11.61      24.26
  44.8       45.0      32.02      11.46      24.37
  49.8       50.0      32.10      11.04      24.51      3.91
  59.7       60.0      32.25      10.48      24.73
  69.8       70.1      32.58       9.53      25.14
  74.5       74.9      32.84       8.93      25.44      2.02
  79.6       80.0      32.89       8.81      25.50
  89.6       90.0      32.94       8.80      25.54
  91.2       91.7      32.96       8.75      25.56
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CRUISE NO:     7 ALBERNI PROGRAM           TAPE: U01166    -118
LAT   N 48 54.15                           LONG W 125 12.95
DATE   4/10/79                             PASS NO. 21
TIME (PST) 1925                            STN: A13

 DEPTH      PRESS       SAL        TEMP     SIGMA-T

   1.9        1.9      29.56      14.28      21.93
   5.1        5.1      29.78      14.00      22.16
  10.1       10.2      31.11      12.15      23.55
  15.0       15.1      31.35      10.93      23.95
  19.9       20.0      31.47      10.88      24.05
  24.6       24.7      31.63      11.26      24.11
  29.9       30.0      31.83      11.56      24.21
  35.0       35.2      31.93      11.45      24.31
  39.9       40.0      32.00      11.31      24.39
  44.7       44.9      32.04      11.28      24.42
  49.7       49.9      32.13      11.08      24.53
  59.8       60.1      32.25      10.71      24.68
  69.7       70.0      32.59       9.62      25.14
  79.6       80.0      32.81       9.04      25.40
  90.3       90.8      33.02       8.66      25.62
  90.3       90.8      33.02       8.66      25.62
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COASTAL ZONE OCEANOGRAPHY
CRUISE NO:     7 ALBERNI PROGRAM          TAPE: U01166   -119
LAT  N 48 50.05                           LONG W 125 15.80
DATE  4/10/79                             PASS NO. 23
TIME (PST) 1957                           STN: A14

 DEPTH     PRESS      SAL       TEMP    SIGMA-T    OXYGEN
    .1        .1     30.79     12.13     23.30
   2.1       2.1     30.90     12.02     23.40
   5.0       5.1     30.90     11.86     23.44
  10.5      10.5     31.26     11.08     23.85
  14.9      15.0     31.34     10.80     23.96
  19.8      19.9     31.38     10.69     24.01
  25.1      25.2     31.41     10.67     24.04
  29.9      30.0     31.41     10.66     24.04
  35.0      35.1     31.51     10.76     24.11
  39.9      40.0     31.78     10.64     24.33
  44.6      44.8     31.98     10.72     24.48
  50.1      50.4     32.27     10.46     24.75     3.56
  59.7      59.9     32.68      9.55     25.22
  69.6      69.9     32.83      9.08     25.41
  74.7      75.1     32.92      8.90     25.51     2.08
  79.6      80.0     32.96      8.78     25.56
  88.3      88.8     33.00      8.71     25.60

CRUISE NO:     7 ALBERNI PROGRAM          TAPE: U01166   -120
LAT  N 48 48.20                           LONG W 125 14.40
DATE  4/10/79                             PASS NO. 25
TIME (PST) 2037                           STN: A10

 DEPTH     PRESS      SAL       TEMP    SIGMA-T
   2.0       2.0     31.13     11.32     23.71
   4.9       4.9     31.11     11.35     23.69
  10.0      10.0     31.29     11.02     23.89
  15.0      15.0     31.29     11.00     23.89
  19.9      20.0     31.34     10.84     23.96
  25.2      25.3     31.45     10.83     24.04
  30.0      30.1     31.71     10.72     24.27
  34.6      34.7     31.87     10.52     24.43
  34.6      34.7     31.87     10.52     24.43
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COASTAL ZONE OCEANOGRAPHY
CRUISE NO:    7 ALBERNI PROGRAM            TAPE: U01166   -121
LAT  N 48 51.50                            LONG W 125  8.10
DATE  4/10/79                              PASS NO. 27
TIME (PST) 2117                            STN: A9

  DEPTH     PRESS      SAL       TEMP    SIGMA-T    OXYGEN
     .4        .4     29.91     13.24     22.41
    2.1       2.1     30.11     13.06     22.60
    4.9       4.9     30.22     12.98     22.70
    9.9      10.0     31.05     11.92     23.54
   14.9      15.0     31.42     11.33     23.93
   19.8      19.9     31.45     11.32     23.96
   24.9      25.0     31.52     11.45     23.99
   29.9      30.1     31.61     11.41     24.07
   34.9      35.0     31.70     11.36     24.15
   39.9      40.1     31.97     11.25     24.37
   44.8      45.0     32.07     10.95     24.51
   49.7      49.9     32.17     10.60     24.64     3.68
   59.6      59.9     32.30      9.99     24.85
   69.7      70.1     32.46      9.47     25.06
   74.7      75.1     32.55      9.23     25.17     1.57
   79.6      80.0     32.62      9.05     25.25
   89.6      90.1     32.80      8.63     25.45
  100.4     101.0     32.86      8.49     25.52      .84
  110.4     111.0     32.87      8.47     25.53
  120.4     121.0     32.93      8.37     25.59
  122.4     123.1     32.93      8.37     25.60
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COASTAL ZONE OCEANOGRAPHY

CRUISE NO:     7 ALBERNI PROGRAM              TAPE: U01166    -122
LAT   N 48 53.78                              LONG W 125   3.05
DATE   4/10/79                                PASS NO. 29
TIME (PST) 2204                               STN: A8

  DEPTH      PRESS       SAL        TEMP     SIGMA-T
     .3         .3      30.22      12.75      22.74
    2.0        2.0      30.26      12.69      22.78
    5.1        5.1      30.67      12.31      23.18
   10.0       10.0      31.46      11.70      23.90
   15.0       15.0      31.58      11.83      23.97
   19.9       20.0      31.61      11.68      24.02
   24.9       25.0      31.75      11.66      24.13
   29.9       30.0      31.88      11.72      24.22
   34.8       35.0      31.99      11.51      24.35
   39.7       39.9      32.13      10.99      24.54
   44.8       45.0      32.25      10.49      24.73
   49.8       50.1      32.43       9.82      24.98
   59.7       60.0      32.56       9.30      25.16
   69.6       70.0      32.79       8.70      25.44
   79.6       80.0      32.86       8.55      25.52
   89.5       90.0      32.93       8.44      25.58
  100.3      100.9      32.94       8.38      25.60
  110.4      111.0      32.97       8.30      25.64
  120.4      121.0      32.99       8.26      25.66
  130.2      131.0      33.00       8.24      25.67
  140.3      141.1      33.01       8.22      25.68
  150.1      151.0      33.02       8.21      25.69
  160.0      160.9      33.01       8.21      25.68
  165.9      166.9      33.01       8.21      25.68
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COASTAL ZONE OCEANOGRAPHY
CRUISE NO:     7 ALBERNI PROGRAM               TAPE: U01166   -123
LAT  N 48 57.02                                LONG W 125  1.30
DATE  4/10/79                                  PASS NO. 31
TIME (PST) 2239                                STN: A7

  DEPTH      PRESS       SAL        TEMP    SIGMA-T

   10.2       10.3      31.57      12.19     23.89
   14.9       15.0      31.65      12.14     23.96
   19.9       20.0      31.66      12.14     23.98
   24.8       24.9      31.76      11.98     24.08
   29.9       30.1      31.87      11.77     24.20
   34.8       35.0      31.94      11.60     24.29
   39.8       40.0      31.98      11.44     24.35
   44.7       44.9      32.10      10.97     24.52
   49.8       50.0      32.12      10.85     24.57
   59.8       60.1      32.32      10.20     24.83
   69.6       70.0      32.58       9.45     25.15
   79.6       80.0      32.78       8.98     25.38
   90.6       91.1      32.89       8.77     25.51
  100.4      101.0      32.94       8.69     25.55
  110.3      111.0      32.96       8.61     25.58
  120.4      121.1      32.99       8.47     25.63
  130.2      131.0      33.01       8.30     25.67
  140.1      141.0      33.02       8.24     25.69
  150.0      150.9      33.02       8.22     25.69
  160.1      161.0      33.03       8.21     25.69
  169.9      170.9      33.03       8.19     25.70
  179.9      181.0      33.04       8.17     25.71
  189.9      191.1      33.04       8.17     25.71
  199.8      201.0      33.04       8.17     25.71
  219.5      220.9      33.04       8.16     25.71
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COASTAL ZONE OCEANOGRAPHY

CRUISE NO:     7 ALBERNI PROGRAM            TAPE: U01166   -124
LAT  N 48 59.58                             LONG W 124 53.38
DATE  5/10/79                               PASS NO.  1
TIME (PST) 1430                             STN: A5

 DEPTH      PRESS       SAL       TEMP    SIGMA-T
    .2         .2     29.61      13.14     22.20
   2.0        2.0     29.93      13.06     22.46
   5.0        5.0     30.96      12.81     23.30
  10.0       10.0     31.51      12.48     23.80
  15.0       15.0     31.69      12.31     23.97
  19.9       20.0     31.74      12.17     24.03
  24.9       25.0     31.85      11.91     24.17
  29.8       30.0     31.95      11.59     24.30
  34.8       34.9     31.99      11.06     24.42
  39.8       40.0     32.05      10.20     24.62
  44.9       45.1     32.12       9.81     24.74
  49.8       50.0     32.27       9.59     24.89
  59.7       60.0     32.58       9.02     25.22
  69.7       70.0     32.70       8.74     25.36
  79.6       80.0     32.81       8.59     25.47
  89.5       90.0     32.90       8.51     25.55
 100.4      100.9     32.93       8.48     25.58
 110.4      111.0     32.96       8.40     25.61
 120.4      121.1     32.97       8.34     25.63
 130.2      131.0     32.98       8.31     25.64
 140.2      141.0     33.00       8.22     25.67
 150.1      151.0     33.01       8.21     25.68
 160.0      161.0     33.01       8.20     25.68
 170.0      171.0     33.02       8.18     25.70
 179.9      181.0     33.04       8.16     25.71
 189.8      191.0     33.05       8.14     25.72
 198.8      200.0     33.05       8.14     25.73
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COASTAL ZONE OCEANOGRAPHY
CRUISE NO:    7 ALBERNI PROGRAM          TAPE: U01166   -125
LAT  N 48 59.58                          LONG W 124 53.38
DATE  5/10/79                            PASS NO.  3
TIME (PST) 1453                          STN: A5

  DEPTH      PRESS       SAL       TEMP     SIGMA-T
    1.9        1.9     30.10      13.11      22.58
    5.0        5.0     30.17      13.03      22.65
   10.0       10.0     31.48      12.50      23.77
   14.9       15.0     31.68      12.35      23.95
   19.9       20.0     31.73      12.22      24.01
   24.8       25.0     31.85      11.91      24.16
   29.9       30.0     31.94      11.68      24.27
   34.8       34.9     32.00      10.96      24.45
   39.8       40.0     32.08      10.06      24.66
   44.8       45.0     32.14       9.76      24.76
   49.7       50.0     32.24       9.63      24.86
   59.7       60.0     32.62       8.94      25.26
   69.6       70.0     32.75       8.65      25.41
   79.5       80.0     32.80       8.58      25.46
   90.5       91.0     32.88       8.51      25.54
  100.4      101.0     32.94       8.46      25.59
  110.4      111.C     32.96       8.37      25.62
  120.4      121.1     32.98       8.30      25.64
  130.3      131.0     32.99       8.26      25.66
  140.2      141.0     33.00       8.22      25.68
  150.1      151.0     33.01       8.19      25.69
  160.0      161.0     33.02       8.18      25.70
  169.9      171.0     33.03       8.18      25.70
  179.9      181.0     33.04       8.16      25.71
  189.8      191.0     33.04       8.15      25.72
  197.7      199.0     33.05       8.14      25.73

CRUISE NO:    8 ALBERNI PROGRAM          TAPE: U01166   -126
LAT  N 49 12.16                          LONG W 124 49.02
DATE 28/11/79                            PASS NO.  1
TIME (PST) 1048                          STN: A0

  DEPTH      PRESS       SAL       TEMP     SIGMA-T
    1.9        1.9     12.90       9.12       9.86
    5.0        5.0     30.12      10.56      23.06
   10.0       10.0     31.36      10.99      23.95
   15.0       15.0     31.48      10.89      24.05
   19.9       20.0     31.50      10.68      24.11
   25.0       25.1     31.55      10.64      24.15
   30.0       30.1     31.60      10.60      24.20
   34.9       35.1     31.64      10.48      24.25
   40.0       40.1     31.68      10.40      24.29
   44.8       45.0     31.71      10.33      24.33
   49.6       49.8     31.74      10.28      24.37
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COASTAL ZONE OCEANOGRAPHY
CRUISE NO:     8 ALBERNI PROGRAM          TAPE: U01166    -127
LAT  N 49  9.91                           LONG W 124 48.62
DATE 28/11/79                             PASS NO.  3
TIME (PST) 1116                           STN: A1

 DEPTH     PRESS      SAL       TEMP    SIGMA-T
   2.5       2.5     28.39     10.80     21.67
   5.0       5.0     28.95     10.86     22.09
  10.0      10.0     31.20     11.06     23.81
  14.9      14.9     31.48     10.99     24.04
  19.9      20.0     31.57     10.94     24.12
  24.9      25.0     31.61     10.86     24.16
  30.0      30.1     31.64     10.83     24.20
  35.0      35.1     31.67     10.74     24.23
  39.9      40.1     31.68     10.70     24.25
  44.8      45.0     31.74     10.56     24.31
  49.9      50.1     31.75     10.47     24.34
  59.8      60.0     31.79     10.28     24.40
  69.7      70.0     31.90      9.95     24.54
  79.6      80.0     32.10      9.49     24.78
  89.6      90.0     32.17      9.29     24.86
  92.4      92.9     32.18      9.26     24.87

CRUISE NO:     8 ALBERNI PROGRAM          TAPE: U01166    -128
LAT  N 49  7.15                           LONG W 124 48.80
DATE 28/11/79                             PASS NO.  5
TIME (PST) 1203                           STN: A2

 DEPTH     PRESS      SAL       TEMP    SIGMA-T   OXYGEN
   2.6       2.6     25.17     10.22     19.25
   5.0       5.0     27.56     10.72     21.03
  10.0      10.1     31.54     11.14     24.06
  14.9      15.0     31.54     11.10     24.07
  19.9      20.0     31.61     11.07     24.13
  24.9      25.0     31.67     10.99     24.19
  29.9      30.0     31.74     10.79     24.28
  34.9      35.0     31.75     10.68     24.31
  39.8      40.0     31.78     10.64     24.34
  44.8      45.0     31.82     10.47     24.39
  49.8      50.0     31.84     10.33     24.44    2.79
  59.7      60.0     31.93      9.86     24.58
  69.6      69.9     32.08      9.50     24.76
  74.6      74.9     32.15      9.34     24.84    1.51
  79.7      80.0     32.18      9.24     24.87
  89.7      90.1     32.18      9.22     24.88
 100.5     101.0     32.19      9.21     24.89    1.38
 110.4     111.0     32.20      9.18     24.90
 120.4     121.0     32.21      9.16     24.91
 125.3     125.9     32.22      9.14     24.92    1.94
 126.4     127.0     32.22      9.14     24.92
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COASTAL ZONE OCEANOGRAPHY
CRUISE NO: 8 ALBERNI PROGRAM
LAT N 49 5.50
DATE 28/11/79
TIME (PST) 1255

TAPE: U01166 -129
LONG W 124 49.50
PASS NO. 7
STN: A3

DEPTH	PRESS	SAL	TEMP	SIGMA-T
2.5	2.5	27.19	10.33	20.81
5.0	5.0	28.09	10.68	21.45
10.0	10.0	31.47	11.37	23.97
14.9	15.0	31.63	11.66	24.04
20.0	20.1	31.73	11.58	24.13
24.9	25.0	31.75	11.49	24.16
29.8	29.9	31.79	11.31	24.23
34.9	35.0	31.80	10.99	24.29
39.8	40.0	31.78	10.93	24.28
44.8	45.0	31.83	10.64	24.38
49.7	49.9	31.86	10.45	24.43
59.8	60.0	31.86	10.43	24.43
69.7	70.0	31.89	10.36	24.47
79.7	80.1	31.92	10.34	24.49
89.6	90.0	31.94	10.28	24.52
99.6	100.0	31.95	10.28	24.52
104.6	105.1	31.95	10.29	24.53

COASTAL ZONE OCEANOGRAPHY

CRUISE NO: 8 ALBERNI PROGRAM TAPE: U01166 -130
LAT N 49 2.70 LONG W 124 51.11
DATE 28/11/79 PASS NO. 9
TIME (PST) 1339 STN: A4

DEPTH	PRESS	SAL	TEMP	SIGMA-T
1.9	1.9	28.58	10.94	21.79
5.0	5.0	30.49	11.42	23.20
10.1	10.1	31.62	11.70	24.02
14.9	15.0	31.74	11.78	24.10
19.9	20.0	31.78	11.64	24.16
24.9	25.0	31.81	11.42	24.22
30.0	30.1	31.84	11.17	24.28
34.9	35.0	31.82	10.98	24.31
39.8	40.0	31.83	10.86	24.34
44.7	44.9	31.84	10.68	24.38
49.7	50.0	31.86	10.59	24.40
59.7	60.0	31.90	10.46	24.46
69.7	70.0	32.08	10.39	24.61
79.7	80.1	32.15	10.13	24.71
89.5	89.9	32.30	9.72	24.89
99.5	100.0	32.55	9.16	25.18
110.5	111.1	32.74	8.69	25.40
120.4	121.0	32.81	8.46	25.49
130.2	130.9	32.87	8.33	25.55
140.3	141.1	32.89	8.33	25.57
150.1	151.0	32.91	8.32	25.59
160.2	161.1	32.93	8.28	25.61
170.0	171.0	32.94	8.25	25.62
179.9	181.0	32.95	8.24	25.63
179.9	181.0	32.95	8.24	25.63

COASTAL ZONE OCEANOGRAPHY
CRUISE NO: 8 ALBERNI PROGRAM
LAT N 48 59.58
DATE 28/11/79
TIME (PST) 1421

TAPE: U01166 -131
LONG W 124 53.38
PASS NO. 11
STN: A5

DEPTH	PRESS	SAL	TEMP	SIGMA-T	OXYGEN
1.0	1.0	25.91	9.89	19.89	
2.0	2.0	26.62	9.98	20.42	
4.9	4.9	26.55	10.05	20.36	
9.9	9.9	31.10	11.78	23.61	
15.0	15.0	31.76	11.76	24.12	
19.9	19.9	31.83	11.69	24.19	
24.9	25.0	31.84	11.52	24.22	
30.0	30.1	31.85	11.28	24.28	
34.8	35.0	31.85	11.24	24.29	
39.9	40.0	31.86	11.17	24.31	
44.8	45.0	31.87	11.07	24.33	
49.8	50.0	31.89	10.92	24.37	3.93
59.7	60.0	31.97	10.72	24.47	
69.8	70.1	32.04	10.72	24.52	
74.6	74.9	32.12	10.51	24.62	3.33
79.7	80.1	32.18	10.35	24.69	
89.6	90.1	32.33	9.83	24.90	
99.6	100.1	32.61	9.18	25.22	1.86
110.5	111.0	32.75	8.84	25.38	
120.5	121.1	32.81	8.70	25.45	
125.4	126.0	32.85	8.61	25.49	1.63
130.2	130.9	32.87	8.56	25.52	
140.1	140.9	32.91	8.46	25.57	
150.2	151.1	32.92	8.41	25.58	1.57
160.1	161.0	32.93	8.40	25.59	
170.2	171.2	32.95	8.36	25.61	
180.0	181.0	32.95	8.35	25.61	
189.9	190.9	32.97	8.32	25.63	
199.8	200.9	32.98	8.29	25.65	1.56
224.6	226.0	32.99	8.24	25.67	
249.6	251.1	33.00	8.22	25.67	1.63
275.2	276.9	33.00	8.22	25.68	
300.2	302.1	33.00	8.21	25.68	1.61
300.2	302.1	33.00	8.21	25.68	

COASTAL ZONE OCEANOGRAPHY

CRUISE NO: 8 ALBERNI PROGRAM TAPE: U01166 -132
LAT N 48 58.78 LONG W 124 57.80
DATE 28/11/79 PASS NO. 13
TIME (PST) 1522 STN: A6

DEPTH	PRESS	SAL	TEMP	SIGMA-T
.9	.9	28.39	10.46	21.72
2.0	2.0	28.41	10.46	21.74
5.1	5.1	28.41	10.46	21.74
10.0	10.0	31.49	11.59	23.94
15.0	15.0	31.86	11.63	24.22
19.9	19.9	31.88	11.57	24.25
24.9	25.0	31.89	11.55	24.26
30.0	30.1	31.91	11.43	24.30
34.9	35.0	31.93	11.43	24.31
39.8	39.9	31.94	11.34	24.34
44.8	45.0	31.95	11.29	24.35
49.8	50.1	31.98	11.22	24.39
59.8	60.1	32.03	11.12	24.44
69.7	70.0	32.10	11.01	24.52
79.6	80.0	32.19	10.67	24.65
89.6	90.0	32.29	10.19	24.81
100.5	101.0	32.59	9.32	25.18
110.5	111.1	32.75	8.94	25.37
120.4	121.1	32.86	8.69	25.50
130.3	131.0	32.89	8.54	25.54
140.2	140.9	32.91	8.48	25.57
150.1	151.0	32.92	8.46	25.58
160.1	161.0	32.95	8.41	25.60
170.0	171.0	32.95	8.36	25.62
175.8	176.8	32.96	8.36	25.62

COASTAL ZONE OCEANOGRAPHY
CRUISE NO: 8 ALBERNI PROGRAM
LAT N 48 57.02
DATE 28/11/79
TIME (PST) 1557

TAPE: U01166 -133
LONG W 125 1.30
PASS NO. 15
STN: A7

DEPTH	PRESS	SAL	TEMP	SIGMA-T	OXYGEN
2.1	2.1	29.64	10.95	22.61	
4.9	5.0	29.62	10.94	22.60	
10.0	10.1	30.75	11.35	23.41	
14.9	15.0	31.70	11.46	24.13	
20.0	20.1	31.79	11.28	24.23	
24.9	25.0	31.84	11.21	24.28	
29.9	30.0	31.87	11.09	24.33	
34.8	35.0	31.88	11.08	24.33	
39.7	39.9	31.90	11.10	24.35	
44.8	45.0	31.91	11.09	24.36	
49.9	50.1	31.91	11.09	24.36	5.15
59.7	60.0	32.02	11.01	24.46	
69.7	70.0	32.07	10.96	24.50	
74.6	75.0	32.17	10.79	24.61	4.18
79.6	80.0	32.19	10.74	24.64	
89.5	90.0	32.49	9.71	25.04	
100.5	101.0	32.54	9.50	25.12	2.20
110.5	111.1	32.72	8.94	25.34	
120.4	121.0	32.81	8.73	25.45	
125.4	126.1	32.83	8.69	25.47	1.47
130.3	131.0	32.88	8.58	25.52	
140.2	141.0	32.91	8.50	25.56	
150.2	151.0	32.92	8.47	25.57	1.31
160.0	160.9	32.93	8.43	25.59	
170.0	171.0	32.94	8.42	25.59	
179.9	180.9	32.94	8.41	25.60	
189.7	190.8	32.94	8.41	25.60	
199.8	201.0	32.94	8.40	25.60	1.31
203.6	204.8	32.95	8.40	25.61	

COASTAL ZONE OCEANOGRAPHY

CRUISE NO: 8 ALBERNI PROGRAM
LAT N 48 57.72
DATE 28/11/79
TIME (PST) 1647

TAPE: U01166 -134
LONG W 125 4.48
PASS NO. 17
STN: A11

DEPTH	PRESS	SAL	TEMP	SIGMA-T
2.7	2.7	30.66	11.19	23.37
5.0	5.0	30.94	11.26	23.57
10.0	10.0	31.73	11.20	24.19
15.0	15.0	31.75	11.28	24.20
19.8	19.9	31.75	11.21	24.21
24.9	25.1	31.81	11.11	24.28
29.8	29.9	31.82	11.05	24.29
34.9	35.0	31.85	11.10	24.31
39.8	40.0	31.88	11.11	24.33
44.7	44.9	31.89	11.03	24.35
49.8	50.0	31.88	11.03	24.35
59.7	60.0	32.00	11.07	24.43
69.7	70.0	32.11	11.02	24.52
69.7	70.0	32.11	11.02	24.52

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COASTAL ZONE OCEANOGRAPHY
CRUISE NO:    8 ALBERNI PROGRAM          TAPE: U01166   -135
LAT  N 48 58.20                          LONG W 125  7.80
DATE 28/11/79                            PASS NO. 19
TIME (PST) 1719                          STN: A12

 DEPTH     PRESS      SAL       TEMP    SIGMA-T   OXYGEN
   1.4       1.4     28.88      9.74     22.22
   4.9       5.0     28.97      9.89     22.27
  10.6      10.6     30.57     11.11     23.31
  14.8      14.9     31.74     11.69     24.12
  20.6      20.7     31.76     10.93     24.27
  25.0      25.1     31.82     11.35     24.24
  29.8      29.9     31.88     11.45     24.27
  34.9      35.0     31.93     11.46     24.30
  39.8      40.0     31.93     11.26     24.34
  44.9      45.1     31.99     11.17     24.41
  49.8      50.1     32.05     11.17     24.45     4.75
  59.7      60.0     32.13     11.05     24.54
  69.4      69.8     32.20     10.86     24.62
  74.7      75.0     32.21     10.80     24.64     3.78
  79.7      80.1     32.24     10.70     24.68
  83.5      83.9     32.25     10.63     24.70

CRUISE NO:    8 ALBERNI PROGRAM          TAPE: U01166   -136
LAT  N 48 54.15                          LONG W 125 12.95
DATE 28/11/79                            PASS NO. 21
TIME (PST) 1813                          STN: A13

 DEPTH     PRESS      SAL       TEMP    SIGMA-T
   1.6       1.6     31.10     10.58     23.82
   5.0       5.0     31.15     10.59     23.85
  10.0      10.1     31.17     10.59     23.87
  14.9      15.0     31.48     10.79     24.08
  19.9      20.0     31.56     10.95     24.11
  25.0      25.1     31.58     10.92     24.13
  29.7      29.9     31.60     10.96     24.14
  34.8      35.0     31.80     11.67     24.17
  39.6      39.8     31.93     11.70     24.27
  44.7      44.9     31.97     11.63     24.31
  49.8      50.0     31.96     11.32     24.35
  59.7      60.0     32.12     11.18     24.51
  69.7      70.0     32.18     10.79     24.62
  79.6      80.0     32.27     10.58     24.73
  90.5      91.0     32.38     10.16     24.88
  92.4      92.8     32.41     10.06     24.92
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COASTAL ZONE OCEANOGRAPHY
CRUISE NO: 8 ALBERNI PROGRAM TAPE: U01166 -137
LAT N 48 50.05 LONG W 125 15.80
DATE 28/11/79 PASS NO. 22
TIME (PST) 1847 STN: A14

DEPTH	PRESS	SAL	TEMP	SIGMA-T	OXYGEN
2.1	2.1	31.32	10.53	24.00	
5.1	5.1	31.33	10.53	24.00	
10.0	10.0	31.34	10.53	24.01	
14.9	15.0	31.41	10.59	24.06	
20.1	20.1	31.47	10.64	24.09	
24.8	25.0	31.52	10.67	24.13	
29.7	29.9	31.74	11.18	24.21	
34.8	35.0	32.01	11.63	24.34	
39.9	40.1	32.06	11.74	24.36	
44.7	44.9	32.11	11.78	24.39	
49.8	50.1	32.16	11.74	24.43	5.85
59.7	60.0	32.24	11.71	24.50	
69.8	70.1	32.32	11.48	24.61	
74.5	74.9	32.38	11.28	24.69	5.03
79.6	80.0	32.39	11.26	24.70	
82.4	82.8	32.43	11.28	24.72	

CRUISE NO: 8 ALBERNI PROGRAM TAPE: U01166 -138
LAT N 48 48.20 LONG W 125 14.40
DATE 28/11/79 PASS NO. 25
TIME (PST) 1745 STN: A10

DEPTH	PRESS	SAL	TEMP	SIGMA-T
2.1	2.1	31.58	10.91	24.13
4.9	4.9	31.58	10.91	24.13
9.9	10.0	31.57	10.90	24.13
15.0	15.1	31.60	10.95	24.14
19.9	20.0	31.80	11.29	24.24
23.9	24.0	31.85	11.36	24.26
67.7	68.0	32.30	11.53	24.58
69.8	70.1	32.32	11.48	24.61
74.5	74.9	32.38	11.28	24.69

COASTAL ZONE OCEANOGRAPHY
CRUISE NO: 8 ALBERNI PROGRAM
LAT N 48 51.50
DATE 28/11/79
TIME (PST) 2023

TAPE: U01166 -139
LONG W 125 8.10
PASS NO. 27
STN: A9

DEPTH	PRESS	SAL	TEMP	SIGMA-T	OXYGEN
1.6	1.6	31.51	10.95	24.07	
5.1	5.2	31.52	10.95	24.08	
10.0	10.0	31.51	10.95	24.07	
14.9	15.0	31.52	10.94	24.08	
19.8	19.9	31.53	10.93	24.09	
24.8	24.9	31.56	11.02	24.10	
29.9	30.1	31.80	11.33	24.23	
34.8	34.9	31.87	11.37	24.27	
39.9	40.1	31.90	11.33	24.30	
44.9	45.1	31.93	11.34	24.33	
49.7	49.9	31.92	11.25	24.34	5.42
59.7	60.0	31.95	11.11	24.39	
69.6	69.9	32.08	10.83	24.53	
74.7	75.1	32.11	10.68	24.58	3.92
79.6	79.9	32.15	10.46	24.65	
89.6	90.0	32.34	9.94	24.89	
100.4	101.0	32.62	9.22	25.22	1.18
110.2	110.7	32.75	8.93	25.37	
110.2	110.7	32.75	8.93	25.37	

CRUISE NO: 8 ALBERNI PROGRAM
LAT N 48 53.78
DATE 28/11/79
TIME (PST) 2107

TAPE: U01166 -140
LONG W 125 3.05
PASS NO. 29
STN: A8

DEPTH	PRESS	SAL	TEMP	SIGMA-T
5.0	5.0	30.88	11.08	23.56
10.0	10.0	31.26	11.32	23.81
15.0	15.1	31.64	11.63	24.05
19.9	20.0	31.83	11.37	24.24
24.9	25.0	31.87	11.55	24.24
29.9	30.1	31.87	11.54	24.24
34.9	35.0	31.91	11.33	24.31
39.8	40.0	31.92	11.39	24.31
44.9	45.1	31.96	11.41	24.34
49.7	50.0	31.98	11.36	24.36
59.6	59.9	32.03	11.20	24.43
69.6	69.9	32.11	10.90	24.55
79.6	80.0	32.22	10.44	24.71
89.6	90.0	32.37	9.89	24.92
100.5	101.0	32.63	9.13	25.24
110.4	111.0	32.76	8.81	25.40
120.3	120.9	32.84	8.64	25.49
130.2	131.0	32.88	8.55	25.53
140.3	141.0	32.91	8.49	25.56
144.9	145.7	32.92	8.46	25.58

1980 CTD data

COASTAL ZONE OCEANOGRAPHY
CRUISE NO: 9 ALBERNI PROGRAM TAPE: U01166 -141
LAT N 48 57.02 LONG W 125 1.30
DATE 8/ 2/80 PASS NO. 42
TIME (PST) 1503 STN: A7

DEPTH	PRESS	SAL	TEMP	SIGMA-T	OXYGEN
1.0	1.0	21.87	7.74	17.02	
1.8	1.8	24.04	7.69	18.72	
5.0	5.0	25.38	7.85	19.75	
10.0	10.0	30.04	8.40	23.32	
15.1	15.1	30.33	8.35	23.56	
19.9	20.0	30.46	8.28	23.67	
25.0	25.1	31.10	9.13	24.05	
29.9	30.0	31.46	9.63	24.25	
34.9	35.0	31.61	9.96	24.31	
39.9	40.0	31.71	10.10	24.37	
44.8	45.0	31.76	9.96	24.43	
49.8	50.0	31.85	10.00	24.50	5.26
59.7	60.0	31.99	9.92	24.61	
69.7	70.0	32.10	9.84	24.72	
74.7	75.0	32.12	9.83	24.74	5.21
79.6	80.0	32.15	9.81	24.76	
89.7	90.1	32.19	9.76	24.80	
99.5	100.0	32.24	9.73	24.85	5.16
110.5	111.0	32.33	9.67	24.92	
120.4	121.0	32.45	9.53	25.04	
125.3	126.0	32.59	9.31	25.19	2.06
130.4	131.0	32.69	9.09	25.30	
140.3	141.0	32.77	8.87	25.40	
150.2	151.0	32.81	8.77	25.44	1.38
160.3	161.1	32.82	8.74	25.45	
170.2	171.1	32.83	8.69	25.47	
180.0	181.0	32.84	8.66	25.49	
189.9	190.9	32.85	8.65	25.49	
199.9	201.1	32.85	8.65	25.49	1.34
214.7	216.0	32.85	8.65	25.49	

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COASTAL ZONE OCEANOGRAPHY

CRUISE NO:     9 ALBERNI PROGRAM            TAPE: U01166    -142
LAT  N 48 53.78                             LONG W 125  3.05
DATE  8/ 2/80                               PASS NO. 44
TIME (PST) 1559                             STN: A8

 DEPTH      PRESS      SAL       TEMP    SIGMA-T
   2.2        2.3     25.85      8.14     20.08
   5.2        5.2     28.32      8.17     22.01
  10.0       10.1     29.74      8.18     23.12
  15.0       15.0     30.09      8.28     23.39
  19.9       20.0     30.70      8.77     23.79
  24.9       25.0     30.99      9.13     23.96
  29.8       29.9     31.45      9.69     24.23
  34.9       35.1     31.72     10.03     24.39
  39.9       40.0     31.84     10.07     24.48
  44.9       45.1     31.88     10.07     24.50
  49.7       49.9     31.91     10.06     24.53
  59.7       60.0     32.03     10.01     24.63
  69.7       70.0     32.10      9.97     24.70
  79.7       80.1     32.16      9.89     24.75
  89.6       90.0     32.23      9.81     24.82
  99.6      100.1     32.30      9.74     24.89
 110.5      111.0     32.37      9.67     24.95
 120.4      121.0     32.60      9.30     25.19
 130.3      131.0     32.70      9.07     25.31
 140.2      141.0     32.76      8.91     25.38
 150.2      151.0     32.80      8.83     25.42
 158.0      158.8     32.80      8.81     25.43
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COASTAL ZONE OCEANOGRAPHY
CRUISE NO:     9 ALBERNI PROGRAM              TAPE: U01166    -143
LAT  N 48 51.50                               LONG W 125  8.10
DATE  8/ 2/80                                 PASS NO. 46
TIME (PST) 1635                               STN: A9

 DEPTH     PRESS      SAL       TEMP    SIGMA-T   OXYGEN
   5.0       5.1    28.05       8.02    21.82
  10.1      10.1    29.51       8.08    22.96
  15.0      15.0    29.73       8.05    23.13
  19.9      20.0    30.11       8.28    23.40
  24.9      25.0    30.62       8.47    23.77     6.31
  30.0      30.1    30.94       8.98    23.94
  34.9      35.0    31.45       9.71    24.23
  39.7      39.9    31.64       9.90    24.35
  44.9      45.0    31.78       9.69    24.49
  49.8      50.0    31.80       9.86    24.48     5.17
  59.8      60.0    31.87       9.70    24.56
  69.6      69.9    32.04      10.00    24.64
  74.7      75.0    32.08      10.00    24.67     4.13
  79.6      80.0    32.11      10.00    24.70
  88.5      88.9    32.20       9.93    24.78

CRUISE NO:     9 ALBERNI PROGRAM              TAPE: U01166    -144
LAT  N 48 48.20                               LONG W 125 14.40
DATE  8/ 2/80                                 PASS NO. 48
TIME (PST) 1721                               STN: A10

 DEPTH     PRESS      SAL       TEMP    SIGMA-T
   9.9      10.0    30.04       7.95    23.39
  15.1      15.1    30.70       8.13    23.88
  19.9      20.0    30.94       8.34    24.04
  24.9      25.0    31.03       8.38    24.10
  29.9      30.0    31.04       8.38    24.11
  34.8      35.0    31.10       8.38    24.16
  39.7      39.9    31.22       8.45    24.25
  41.7      41.9    31.24       8.45    24.26
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COASTAL ZONE OCEANOGRAPHY
CRUISE NO:    9 ALBERNI PROGRAM              TAPE: U01166   -145
LAT   N 48 50.05                             LONG W 125 15.80
DATE  8/ 2/80                                PASS NO. 50
TIME (PST) 1742                              STN: A14

  DEPTH      PRESS       SAL        TEMP     SIGMA-T    OXYGEN
    3.2        3.2      28.64       7.73      22.32
    5.1        5.2      28.61       7.73      22.30
   10.1       10.1      28.79       7.75      22.43
   15.0       15.0      29.53       7.95      22.99
   20.0       20.0      30.06       8.18      23.37
   24.7       24.8      30.48       8.28      23.69
   29.9       30.0      30.90       8.37      24.00
   34.9       35.0      31.02       8.44      24.09
   39.7       39.9      31.27       8.56      24.27
   44.9       45.1      31.38       8.68      24.33
   49.9       50.1      31.69       9.54      24.44      5.95
   59.8       60.0      31.90       9.55      24.61
   69.8       70.1      31.98       9.04      24.75
   74.7       75.0      32.10       9.17      24.82      5.80
   79.7       80.1      32.11       9.12      24.84
   89.6       90.0      32.25       9.20      24.93
   91.2       91.6      32.28       9.22      24.96

CRUISE NO:    9 ALBERNI PROGRAM              TAPE: U01166   -146
LAT   N 48 54.15                             LONG W 125 12.95
DATE  8/ 2/80                                PASS NO. 52
TIME (PST) 1825                              STN: A13

  DEPTH      PRESS       SAL        TEMP     SIGMA-T
    2.1        2.1      27.18       7.83      21.16
    5.0        5.0      27.29       7.84      21.25
   10.0       10.0      29.24       8.24      22.73
   14.9       15.0      30.11       8.08      23.43
   19.9       20.0      30.43       8.14      23.67
   24.9       25.0      30.59       8.24      23.78
   29.9       30.0      30.95       8.40      24.04
   34.9       35.0      31.15       8.23      24.22
   39.8       40.0      31.49       9.44      24.30
   44.8       45.0      31.69       9.68      24.42
   49.9       50.1      31.74       9.75      24.45
   59.7       60.0      31.96       9.71      24.63
   69.8       70.1      32.11       9.49      24.78
   79.6       80.0      32.10       9.31      24.80
   89.5       90.0      32.24       9.32      24.91
   98.6       99.1      32.29       9.30      24.95
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COASTAL ZONE OCEANOGRAPHY

CRUISE NO: 9 ALBERNI PROGRAM TAPE: U01166 -147
LAT N 48 58.20 LONG W 125 7.80
DATE 8/ 2/80 PASS NO. 54
TIME (PST) 1912 STN: A12

DEPTH	PRESS	SAL	TEMP	SIGMA-T	OXYGEN
2.8	2.8	24.06	7.95	18.71	
5.0	5.0	27.84	8.16	21.64	
8.8	8.8	29.41	8.19	22.86	
15.1	15.1	30.31	8.29	23.55	
20.0	20.1	30.53	8.39	23.71	
24.9	25.0	30.82	8.62	23.91	
29.9	30.0	31.02	8.79	24.04	
34.9	35.0	31.35	9.35	24.21	
39.9	40.1	31.52	9.58	24.31	
44.9	45.1	31.68	9.77	24.40	
47.8	48.0	31.73	9.80	24.44	5.34
49.8	50.0	31.74	9.80	24.44	
59.9	60.1	32.08	9.82	24.70	
69.7	70.0	32.14	9.68	24.77	
72.6	73.0	32.14	9.67	24.77	5.22
79.5	79.9	32.21	9.65	24.83	
87.6	88.0	32.24	9.69	24.85	5.34
89.6	90.0	32.24	9.68	24.85	
93.5	94.0	32.24	9.68	24.85	

CRUISE NO: 9 ALBERNI PROGRAM TAPE: U01166 -148
LAT N 48 57.72 LONG W 125 4.48
DATE 8/ 2/80 PASS NO. 56
TIME (PST) 1951 STN: A11

DEPTH	PRESS	SAL	TEMP	SIGMA-T
2.3	2.3	27.99	8.14	21.76
5.0	5.1	28.82	8.26	22.39
10.1	10.1	29.96	8.19	23.29
14.9	15.0	30.25	8.15	23.53
19.9	20.0	30.50	8.30	23.70
25.0	25.1	30.92	8.86	23.95
29.8	29.9	31.36	9.51	24.20
34.9	35.0	31.58	9.80	24.31
39.8	40.0	31.70	9.95	24.39
44.9	45.0	31.77	9.96	24.44
49.9	50.1	31.81	9.98	24.47
59.7	60.0	31.97	9.91	24.60
69.7	70.1	32.10	9.83	24.72
79.7	80.0	32.17	9.77	24.78
85.3	85.7	32.21	9.72	24.82

COASTAL ZONE OCEANOGRAPHY
CRUISE NO: 9 ALBERNI PROGRAM
LAT N 48 57.02
DATE 8/ 2/80
TIME (PST) 2022

TAPE: U01166 -149
LONG W 125 1.30
PASS NO. 58
STN: A7

DEPTH	PRESS	SAL	TEMP	SIGMA-T
2.1	2.1	27.12	7.93	21.10
5.0	5.0	29.03	8.12	22.57
9.9	10.0	30.24	8.51	23.47
15.0	15.1	30.43	8.50	23.62
19.9	19.9	30.69	8.72	23.79
24.9	25.0	31.24	9.44	24.11
29.9	30.0	31.42	9.65	24.22
34.9	35.0	31.58	9.85	24.31
39.8	40.0	31.67	9.95	24.36
44.8	45.0	31.81	10.08	24.45
49.7	50.0	31.92	10.01	24.55
59.7	60.0	31.95	9.94	24.59
69.6	69.9	32.06	9.88	24.68
79.6	80.0	32.13	9.81	24.74
89.6	90.0	32.22	9.73	24.83
100.5	101.0	32.27	9.70	24.87
110.4	110.9	32.33	9.66	24.93
120.4	121.0	32.51	9.40	25.11
130.3	131.0	32.74	8.99	25.35
140.3	141.1	32.78	8.85	25.41
150.2	151.0	32.81	8.76	25.44
160.1	161.0	32.83	8.71	25.46
170.1	171.0	32.83	8.68	25.47
179.9	180.9	32.84	8.67	25.48
190.0	191.0	32.84	8.66	25.48
199.8	200.9	32.84	8.65	25.49
224.6	225.9	32.85	8.64	25.49

COASTAL ZONE OCEANOGRAPHY

CRUISE NO: 9 ALBERNI PROGRAM TAPE: U01166 -150
LAT N 48 58.78 LONG W 124 57.80
DATE 8/ 2/80 PASS NO. 60
TIME (PST) 2107 STN: A6

DEPTH	PRESS	SAL	TEMP	SIGMA-T
6.6	6.7	29.89	8.35	23.22
10.0	10.0	30.26	8.39	23.50
15.0	15.1	30.48	8.48	23.66
19.9	20.0	30.72	8.77	23.80
24.9	25.0	31.36	9.96	24.12
29.9	30.0	31.47	9.99	24.20
34.8	35.0	31.66	10.12	24.32
39.9	40.0	31.75	10.15	24.40
44.8	45.0	31.83	10.16	24.45
49.8	50.0	31.90	10.14	24.51
59.7	60.0	31.98	10.02	24.60
69.8	70.1	32.11	9.91	24.71
79.7	80.1	32.19	9.81	24.79
89.5	90.0	32.27	9.72	24.87
99.5	100.0	32.30	9.68	24.89
110.4	111.0	32.44	9.48	25.04
120.3	120.9	32.59	9.18	25.21
130.4	131.1	32.76	8.82	25.39
140.2	141.0	32.78	8.76	25.42
150.3	151.1	32.81	8.70	25.45
159.9	160.8	32.82	8.67	25.47
159.9	160.8	32.82	8.67	25.47

COASTAL ZONE OCEANOGRAPHY
CRUISE NO: 9 ALBERNI PROGRAM
LAT N 48 59.58
DATE 8/ 2/80
TIME (PST) 2155

TAPE: U01166 -151
LONG W 124 53.38
PASS NO. 62
STN: A5

DEPTH	PRESS	SAL	TEMP	SIGMA-T	OXYGEN
5.1	5.2	29.60	8.36	22.99	
9.9	10.0	30.49	8.54	23.66	
14.9	15.0	30.83	9.06	23.85	
19.9	20.0	31.11	9.50	24.00	
24.8	24.9	31.36	9.88	24.13	
29.9	30.0	31.56	10.21	24.24	
34.9	35.0	31.62	10.22	24.28	
39.9	40.1	31.66	10.21	24.31	
44.8	45.0	31.80	10.18	24.43	
49.8	50.0	31.85	10.22	24.46	4.80
59.7	60.0	31.98	10.15	24.57	
69.7	70.1	32.08	10.04	24.67	
74.7	75.1	32.13	9.96	24.72	4.57
79.7	80.1	32.16	9.89	24.76	
89.6	90.1	32.24	9.82	24.83	
99.5	100.0	32.28	9.71	24.88	4.13
109.6	110.1	32.40	9.56	25.00	
120.4	121.0	32.57	9.23	25.18	
125.2	125.9	32.67	9.01	25.29	2.28
130.2	130.9	32.72	8.90	25.35	
140.3	141.0	32.76	8.83	25.39	
150.2	151.0	32.79	8.75	25.43	1.73
160.2	161.0	32.82	8.69	25.46	
170.1	171.1	32.83	8.64	25.48	
180.1	181.1	32.85	8.60	25.50	
190.0	191.1	32.87	8.55	25.52	
199.8	201.0	32.88	8.50	25.54	1.48
224.7	226.1	32.90	8.45	25.56	
250.4	252.0	32.91	8.42	25.57	1.38
275.3	277.0	32.91	8.41	25.58	
300.2	302.1	32.91	8.41	25.58	1.36
312.1	314.1	32.91	8.41	25.58	

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COASTAL ZONE OCEANOGRAPHY

CRUISE NO:     9 ALBERNI PROGRAM          TAPE: U01166    -152
LAT  N 49  2.70                           LONG W 124 51.11
DATE  8/ 2/80                             PASS NO. 64
TIME (PST) 2320                           STN: A4

 DEPTH      PRESS       SAL       TEMP    SIGMA-T
   2.1        2.1     27.02       8.28    20.98
   5.1        5.1     28.75       8.57    22.30
  10.0       10.0     30.38       9.38    23.45
  14.9       15.0     30.92       9.64    23.83
  19.9       19.9     31.32      10.08    24.07
  25.0       25.0     31.47      10.21    24.16
  29.8       30.0     31.57      10.25    24.23
  34.9       35.0     31.65      10.24    24.30
  39.9       40.0     31.72      10.26    24.35
  44.8       45.0     31.80      10.28    24.41
  49.7       50.0     31.84      10.28    24.44
  59.8       60.0     32.00      10.25    24.57
  69.7       70.0     32.10      10.15    24.67
  79.6       80.0     32.15      10.06    24.72
  89.6       90.0     32.22       9.85    24.81
 100.5      101.0     32.28       9.74    24.87
 110.5      111.0     32.41       9.64    24.99
 120.4      121.1     32.59       9.24    25.19
 130.4      131.0     32.72       8.89    25.35
 140.2      141.0     32.76       8.79    25.40
 150.2      151.0     32.80       8.73    25.44
 160.2      161.0     32.81       8.70    25.45
 170.1      171.0     32.82       8.67    25.46
 180.0      181.0     32.83       8.63    25.48
 189.9      191.0     32.84       8.58    25.49
 199.9      201.1     32.85       8.55    25.50
 224.6      225.9     32.89       8.45    25.55
 249.6      251.1     32.91       8.41    25.58
 275.3      277.0     32.92       8.38    25.58
 288.0      289.8     32.92       8.37    25.59
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COASTAL ZONE OCEANOGRAPHY
CRUISE NO:    9 ALBERNI PROGRAM          TAPE: U01166   -153
LAT  N 49  5.50                          LONG W 124 49.50
DATE  8/ 2/80                            PASS NO. 66
TIME (PST) 0005                          STN: A3

 DEPTH      PRESS      SAL       TEMP    SIGMA-T
   5.0        5.0     27.20      8.77     21.05
  10.0       10.0     30.49      9.34     23.54
  15.0       15.0     30.81      9.78     23.72
  19.9       19.9     31.19     10.04     23.97
  24.9       25.0     31.34     10.11     24.08
  29.9       30.0     31.42     10.14     24.14
  34.9       35.0     31.57     10.18     24.25
  39.8       40.0     31.67     10.20     24.32
  44.8       45.0     31.76     10.22     24.39
  49.8       50.0     31.81     10.23     24.43
  59.7       59.9     31.90     10.24     24.49
  69.8       70.1     32.03     10.23     24.60
  79.7       80.0     32.07     10.21     24.63
  89.5       89.9     32.08     10.20     24.64
  99.5       99.9     32.09     10.20     24.65
 110.4      110.9     32.10     10.20     24.65
 110.4      110.9     32.10     10.20     24.65

CRUISE NO:    9 ALBERNI PROGRAM          TAPE: U01166   -154
LAT  N 49  7.15                          LONG W 124 48.80
DATE  9/ 2/80                            PASS NO. 68
TIME (PST) 0034                          STN: A2

 DEPTH      PRESS      SAL       TEMP    SIGMA-T   OXYGEN
   2.3        2.3     15.38      6.63     12.04
   5.0        5.0     27.81      8.92     21.51
  10.0       10.0     30.88      9.87     23.76
  15.0       15.0     31.38     10.16     24.10
  20.0       20.0     31.48     10.19     24.18
  24.9       24.9     31.56     10.19     24.24
  30.0       30.0     31.65     10.21     24.31
  34.8       34.9     31.69     10.22     24.33
  39.9       40.1     31.71     10.23     24.35
  44.8       44.9     31.73     10.21     24.36
  49.9       50.1     31.75     10.20     24.38     3.64
  59.8       60.0     31.79     10.21     24.41
  69.7       70.0     31.82     10.20     24.44
  74.7       75.0     31.84     10.19     24.45     3.58
  79.6       79.9     31.87     10.17     24.48
  89.6       90.0     31.90     10.07     24.53
  99.6      100.0     31.95      9.86     24.60     1.52
 110.4      110.9     31.97      9.81     24.62
 119.5      120.1     31.99      9.78     24.64
 125.3      125.9     32.00      9.77     24.65     1.21
 127.2      127.8     32.00      9.76     24.65
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COASTAL ZONE OCEANOGRAPHY
CRUISE NO:    9 ALBERNI PROGRAM          TAPE: U01166   -155
LAT  N 49  9.91                          LONG W 124 48.62
DATE  9/ 2/80                            PASS NO. 70
TIME (PST) 0123                          STN: A1

 DEPTH     PRESS      SAL       TEMP    SIGMA-T   OXYGEN
   5.1       5.1     27.64      9.00     21.36
  10.0      10.0     30.94     10.05     23.78
  15.0      15.0     31.34     10.19     24.06
  19.9      19.9     31.46     10.18     24.16
  24.9      25.0     31.54     10.17     24.22
  29.9      30.0     31.60     10.15     24.28
  34.8      35.0     31.64     10.14     24.31
  39.8      39.9     31.67     10.14     24.33
  44.8      45.0     31.70     10.15     24.35
  49.8      50.0     31.73     10.15     24.38    3.16
  59.8      60.0     31.78     10.20     24.41
  69.6      69.9     31.82     10.13     24.45
  74.7      75.1     31.81     10.09     24.45    2.31
  79.6      80.0     31.83     10.04     24.48
  90.5      90.9     31.91      9.95     24.55
  99.6     100.1     31.96      9.85     24.60    1.31
 107.2     107.7     31.98      9.79     24.63

CRUISE NO:    9 ALBERNI PROGRAM          TAPE: U01166   -156
LAT  N 49 12.16                          LONG W 124 49.02
DATE  9/ 2/80                            PASS NO. 72
TIME (PST) 0230                          STN: A0

 DEPTH     PRESS      SAL       TEMP    SIGMA-T
   1.9       1.9      6.54      5.57      5.15
   5.0       5.0     27.85      9.33     21.48
   9.9       9.9     30.97     10.12     23.79
  14.9      14.9     31.29     10.19     24.03
  20.0      20.0     31.44     10.19     24.14
  24.9      25.0     31.52     10.16     24.21
  30.0      30.0     31.57     10.15     24.25
  34.9      35.0     31.62     10.15     24.29
  39.9      40.0     31.65     10.13     24.32
  44.8      45.0     31.68     10.13     24.34
  50.0      50.1     31.72     10.14     24.37
  54.9      55.1     31.73     10.14     24.38
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COASTAL ZONE OCEANOGRAPHY
CRUISE NO:     2 ALBERNI PROGRAM           TAPE: U01166    -157
LAT  N 48 57.02                            LONG W 125  1.30
DATE 10/ 2/80                              PASS NO.  1
TIME (PST) 1933                            STN: A7

 DEPTH     PRESS      SAL       TEMP    SIGMA-T
    .3        .3     25.69      7.62     20.02
   1.9       1.9     26.35      7.65     20.54
   5.0       5.0     27.62      7.80     21.51
  10.0      10.0     28.96      7.92     22.55
  14.7      14.7     29.71      8.15     23.10
  20.0      20.0     30.29      8.37     23.53
  25.0      25.0     30.68      8.71     23.78
  29.9      30.0     31.35      9.79     24.14
  34.9      35.0     31.53     10.16     24.22
  39.8      40.0     31.62     10.16     24.29
  44.8      45.0     31.81     10.13     24.44
  49.8      50.0     31.84     10.02     24.49
  60.0      60.2     31.96     10.00     24.58
  69.7      70.0     32.02      9.90     24.65
  79.7      80.1     32.12      9.87     24.73
  90.1      90.6     32.22      9.75     24.82
 100.3     100.8     32.30      9.67     24.90
 109.5     110.1     32.41      9.57     25.00
 120.3     120.9     32.68      9.09     25.29
 129.4     130.0     32.76      8.88     25.38
 140.1     140.8     32.80      8.76     25.44
 150.2     151.0     32.82      8.72     25.46
 159.9     160.8     32.82      8.70     25.46
 170.0     171.0     32.83      8.69     25.47
 179.9     181.0     32.83      8.69     25.47
 182.1     183.1     32.82      8.70     25.46

CRUISE NO:    10 ALBERNI PROGRAM           TAPE: U01166    -158
LAT  N 49 12.16                            LONG W 124 49.02
DATE 26/ 3/80                              PASS NO. 27
TIME (PST) 0810                            STN: A0

 DEPTH     PRESS      SAL       TEMP    SIGMA-T
    .7        .7      4.78      6.84      3.69
   2.5       2.5      7.58      7.43      5.85
   5.0       5.0     29.22      9.14     22.57
  10.1      10.0     30.51      9.35     23.55
  14.9      14.9     30.90      9.62     23.82
  20.0      20.0     31.09      9.71     23.95
  25.1      25.1     31.24      9.81     24.05
  29.9      29.9     31.39      9.87     24.15
  34.9      35.0     31.48      9.92     24.22
  39.9      40.0     31.54      9.94     24.26
  44.8      45.0     31.57      9.96     24.28
  49.9      50.0     31.60      9.97     24.31
  55.4      55.6     31.64      9.99     24.33
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COASTAL ZONE OCEANOGRAPHY
CRUISE NO:   10 ALBERNI PROGRAM          TAPE: U01166   -159
LAT  N 49  9.91                          LONG W 124 48.62
DATE 26/ 3/80                            PASS NO. 29
TIME (PST) 0829                          STN: A1

 DEPTH     PRESS      SAL       TEMP   SIGMA-T
    .7        .7      8.51      7.35     6.59
   2.0       2.0      8.79      7.37     6.81
   5.2       5.1     28.56      9.00    22.08
  10.1      10.1     30.09      9.17    23.25
  15.1      15.1     30.75      9.42    23.73
  19.9      20.0     31.05      9.54    23.95
  24.9      25.0     31.24      9.62    24.08
  30.0      30.1     31.40      9.81    24.17
  34.9      35.0     31.49      9.79    24.25
  39.8      40.0     31.56      9.87    24.29
  44.8      45.0     31.62      9.96    24.33
  49.8      50.0     31.67      9.98    24.36
  59.8      60.0     31.70      9.92    24.40
  69.6      69.9     31.75      9.94    24.43
  79.7      80.0     31.77      9.93    24.45
  89.7      90.1     31.81      9.94    24.48
  99.6     100.0     31.83      9.94    24.49
 107.5     108.0     31.85      9.93    24.51
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COASTAL ZONE OCEANOGRAPHY

CRUISE NO: 10 ALBERNI PROGRAM
LAT N 49 7.15
DATE 26/ 3/80
TIME (PST) 0904

TAPE: U01166 -160
LONG W 124 48.80
PASS NO. 31
STN: A2

DEPTH	PRESS	SAL	TEMP	SIGMA-T	OXYGEN
.7	.7	9.98	7.76	7.71	
2.1	2.1	14.48	8.00	11.21	
5.0	5.0	28.87	8.91	22.34	
10.0	10.0	30.46	9.16	23.54	
15.1	15.1	30.97	9.36	23.91	
20.0	20.1	31.05	9.41	23.97	
25.1	25.1	31.12	9.44	24.01	
30.0	30.1	31.29	9.57	24.13	
34.9	35.0	31.42	9.65	24.21	
39.8	39.9	31.51	9.72	24.27	3.45
44.8	44.9	31.56	9.78	24.31	
49.9	50.1	31.59	9.81	24.32	
59.7	59.9	31.67	9.71	24.40	
64.8	65.1	31.70	9.69	24.43	3.99
69.7	69.9	31.71	9.69	24.43	
79.6	80.0	31.73	9.69	24.46	
89.6	90.0	31.81	9.72	24.51	4.14
99.6	100.0	31.82	9.74	24.51	
110.5	111.0	31.83	9.71	24.53	
114.5	115.0	31.84	9.71	24.53	4.26
120.5	121.0	31.83	9.71	24.53	
130.4	131.0	31.83	9.72	24.53	
136.2	136.9	31.87	9.68	24.56	

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COASTAL ZONE OCEANOGRAPHY
CRUISE NO:   10 ALBERNI PROGRAM          TAPE: U01166   -161
LAT  N 49  5.50                          LONG W 124 49.50
DATE 26/ 3/80                            PASS NO. 33
TIME (PST) 0939                          STN: A3

 DEPTH     PRESS      SAL       TEMP    SIGMA-T
    .8        .8     10.74      7.59      8.32
   2.0       2.0     12.61      7.78      9.77
   5.0       4.9     29.66      9.16     22.92
  10.0      10.0     30.76      9.29     23.75
  15.0      15.0     31.13      9.41     24.03
  20.0      20.0     31.44      9.60     24.24
  24.9      25.0     31.89      9.68     24.58
  30.0      30.0     31.99      9.67     24.66
  34.9      35.0     32.02      9.69     24.68
  39.9      40.1     32.04      9.67     24.70
  44.8      45.0     32.04      9.66     24.70
  49.7      49.9     32.05      9.65     24.71
  59.7      60.0     32.08      9.62     24.74
  69.7      70.0     32.10      9.63     24.75
  79.6      80.0     32.11      9.63     24.76
  89.6      90.0     32.12      9.64     24.77
  99.6     100.1     32.14      9.65     24.78
 107.3     107.8     32.15      9.66     24.78

CRUISE NO:   10 ALBERNI PROGRAM          TAPE: U01166   -162
LAT  N 49 12.16                          LONG W 124 49.02
DATE 26/ 3/80                            PASS NO. 36
TIME (PST) 1907                          STN: A0

 DEPTH     PRESS      SAL       TEMP    SIGMA-T
   2.9       2.9     18.72      8.31     14.49
   5.6       5.6     29.47      9.10     22.78
  10.0      10.1     30.66      9.43     23.66
  14.9      14.9     31.00      9.64     23.89
  19.9      19.9     31.17      9.75     24.01
  24.9      25.0     31.33      9.84     24.11
  29.8      29.9     31.47      9.91     24.21
  34.8      35.0     31.54      9.95     24.26
  39.9      40.0     31.58      9.99     24.29
  44.8      45.0     31.60      9.98     24.30
  49.8      50.0     31.62      9.99     24.32
  54.4      54.7     31.64      9.99     24.34
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COASTAL ZONE OCEANOGRAPHY
CRUISE NO:   10 ALBERNI PROGRAM                    TAPE: U01166   -163
LAT  N 49  9.91                                    LONG W 124 48.62
DATE 26/ 3/80                                      PASS NO. 37
TIME (PST) 1930                                    STN: A1

 DEPTH     PRESS      SAL       TEMP     SIGMA-T
    .6        .6      9.93      7.67      7.68
   2.0       2.0     13.15      7.89     10.18
   5.1       5.0     30.18      9.33     23.30
  10.1      10.0     30.86      9.43     23.81
  15.1      15.1     31.13      9.60     24.00
  19.9      19.9     31.32      9.78     24.12
  25.2      25.2     31.39      9.76     24.18
  29.8      29.9     31.50      9.89     24.24
  34.9      35.0     31.55      9.94     24.27
  39.9      40.0     31.63      9.98     24.33
  44.8      45.0     31.65      9.99     24.34
  49.7      49.9     31.66      9.98     24.35
  59.7      60.0     31.69      9.92     24.38
  69.6      69.9     31.75      9.91     24.43
  79.8      80.1     31.76      9.91     24.44
  89.7      90.1     31.81      9.94     24.48
  99.5     100.0     31.82      9.94     24.49
CRUISE NO:   10 ALBERNI PROGRAM                    TAPE: U01166   -164
LAT  N 49  7.15                                    LONG W 124 48.80
DATE 26/ 3/80                                      PASS NO. 39
TIME (PST) 2010                                    STN: A2

 DEPTH     PRESS      SAL       TEMP     SIGMA-T    OXYGEN
    .7        .7      7.97      7.88      6.12
   2.2       2.2      9.13      7.79      7.04
   5.0       5.0     29.68      9.10     22.94
  10.0       9.9     30.40      9.19     23.50
  15.1      15.1     30.82      9.30     23.81
  20.1      20.1     31.14      9.47     24.03
  25.0      25.0     31.22      9.53     24.08
  29.9      30.0     31.32      9.58     24.15
  35.0      35.1     31.40      9.64     24.21
  40.0      40.2     31.50      9.73     24.26
  44.8      45.0     31.61      9.88     24.33
  49.8      49.9     31.64      9.84     24.36     2.86
  59.8      60.0     31.70      9.73     24.42
  69.8      70.0     31.72      9.74     24.44
  74.6      74.9     31.74      9.73     24.45     3.68
  79.7      80.0     31.74      9.72     24.46
  89.6      90.0     31.80      9.70     24.51
  99.6     100.0     31.82      9.70     24.52     4.05
 109.5     110.0     31.82      9.70     24.52
 120.5     121.0     31.82      9.70     24.52
 125.5     126.1     31.82      9.70     24.52     4.14
 130.4     131.0     31.82      9.69     24.52
 130.4     131.0     31.82      9.69     24.52
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COASTAL ZONE OCEANOGRAPHY
CRUISE NO:    10 ALBERNI PROGRAM          TAPE: U01166   -165
LAT  N 49  5.50                           LONG W 124 49.50
DATE 26/ 3/80                             PASS NO. 42
TIME (PST) 2048                           STN: A3

 DEPTH      PRESS      SAL       TEMP    SIGMA-T
   1.9        1.8     15.18      8.06     11.75
   5.0        5.0     28.81      9.07     22.27
  10.2       10.2     31.20      9.47     24.07
  14.9       14.9     31.44      9.63     24.23
  20.0       20.1     31.69      9.67     24.43
  25.0       25.1     31.79      9.68     24.50
  29.9       30.0     31.97      9.64     24.65
  34.7       34.8     32.01      9.63     24.68
  39.9       40.0     32.03      9.64     24.69
  44.9       45.0     32.06      9.63     24.72
  49.9       50.1     32.06      9.62     24.72
  59.7       60.0     32.11      9.64     24.76
  69.6       69.9     32.12      9.65     24.76
  79.6       80.0     32.14      9.66     24.77
  89.5       89.9     32.15      9.66     24.79
  99.6      100.1     32.16      9.66     24.80
 109.0      109.6     32.18      9.66     24.81
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COASTAL ZONE OCEANOGRAPHY

CRUISE NO:   10 ALBERNI PROGRAM           TAPE: U01166   -166
LAT  N 49  2.70                           LONG W 124 51.11
DATE 26/ 3/80                             PASS NO. 43
TIME (PST) 2116                           STN: A4

  DEPTH      PRESS       SAL        TEMP    SIGMA-T
     .7         .7      10.87       7.81      8.40
    2.0        2.0      11.04       7.83      8.53
    5.1        5.1      29.41       9.02     22.74
   10.1       10.1      30.73       9.10     23.76
   14.9       15.0      31.13       9.37     24.03
   19.9       19.9      31.51       9.64     24.29
   25.0       25.1      31.79       9.68     24.50
   29.9       30.0      31.92       9.64     24.61
   34.8       34.9      32.00       9.47     24.70
   39.9       40.0      32.09       9.49     24.76
   44.8       45.0      32.10       9.42     24.79
   49.9       50.1      32.11       9.41     24.79
   59.8       60.0      32.19       9.62     24.83
   69.6       69.9      32.26       9.73     24.86
   79.7       80.1      32.25       9.53     24.88
   89.7       90.1      32.28       9.52     24.91
   99.6      100.1      32.32       9.39     24.96
  110.4      111.0      32.36       9.39     24.99
  120.5      121.1      32.43       9.27     25.07
  130.3      131.0      32.56       9.18     25.18
  140.3      141.0      32.64       9.03     25.27
  150.1      150.9      32.67       8.96     25.30
  160.0      160.9      32.70       8.90     25.34
  170.0      170.9      32.72       8.86     25.36
  179.9      180.9      32.74       8.83     25.38
  189.9      190.9      32.77       8.76     25.41
  199.8      201.0      32.78       8.73     25.42
  224.7      226.0      32.80       8.66     25.45
  249.6      251.0      32.81       8.65     25.46
  275.2      276.9      32.82       8.63     25.47
  280.1      281.8      32.82       8.63     25.47
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COASTAL ZONE OCEANOGRAPHY
CRUISE NO:    10 ALBERNI PROGRAM               TAPE: U01166    -167
LAT  N 48 59.58                                LONG W 124 53.38
DATE 26/ 3/80                                  PASS NO. 45
TIME (PST) 2224                                STN: A5

 DEPTH      PRESS       SAL       TEMP     SIGMA-T    OXYGEN
    .8         .8      14.27      8.10      11.04
   2.0        2.0      28.84      8.84      22.33
   5.0        5.0      30.12      8.90      23.32
  10.0       10.0      30.91      9.04      23.92
  15.0       15.0      31.32      9.41      24.18
  19.9       20.0      31.52      9.55      24.31
  24.7       24.8      31.74      9.41      24.50
  29.9       30.1      31.84      9.31      24.60
  34.8       35.0      31.94      9.30      24.67
  39.9       40.0      31.99      9.36      24.71
  44.9       45.1      32.09      9.40      24.78
  49.9       50.1      32.12      9.44      24.80     4.64
  59.7       60.0      32.16      9.43      24.83
  69.6       69.9      32.18      9.38      24.85
  74.6       75.0      32.19      9.36      24.87     4.50
  79.7       80.1      32.21      9.37      24.88
  89.6       90.0      32.23      9.33      24.90
  99.6      100.1      32.31      9.31      24.97     4.42
 110.4      111.0      32.36      9.24      25.01
 120.4      121.0      32.42      9.21      25.07
 125.4      126.1      32.44      9.19      25.09     4.19
 130.4      131.1      32.48      9.13      25.13
 140.3      141.0      32.59      9.02      25.23
 150.1      151.0      32.64      8.95      25.28     2.41
 160.1      161.0      32.69      8.85      25.33
 170.1      171.1      32.72      8.79      25.37
 180.0      181.1      32.74      8.75      25.39
 189.8      190.9      32.77      8.70      25.42
 199.8      201.0      32.78      8.67      25.44     1.70
 224.6      225.9      32.80      8.66      25.45
 250.5      252.0      32.81      8.64      25.46     1.64
 275.3      277.0      32.81      8.64      25.46
 300.0      301.9      32.81      8.63      25.46     1.62
 324.9      327.0      32.81      8.63      25.47     1.58
 328.8      330.9      32.81      8.63      25.47
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COASTAL ZONE OCEANOGRAPHY

CRUISE NO: 10 ALBERNI PROGRAM TAPE: U01166 -168
LAT N 48 58.78 LONG W 124 57.80
DATE 26/ 3/80 PASS NO. 46
TIME (PST) 2257 STN: A6

DEPTH	PRESS	SAL	TEMP	SIGMA-T
.8	.8	22.33	8.30	17.31
2.0	2.0	27.19	8.67	21.06
5.0	5.0	29.78	8.76	23.07
10.0	10.1	30.26	8.80	23.44
14.9	14.9	31.21	9.34	24.10
20.0	20.1	31.44	9.51	24.25
24.9	25.0	31.70	9.29	24.49
29.9	30.0	31.75	9.21	24.54
34.8	35.0	31.82	9.23	24.59
39.9	40.0	31.87	9.22	24.64
44.8	45.0	31.93	9.23	24.68
49.7	49.9	31.97	9.24	24.71
59.8	60.1	32.07	9.26	24.78
69.6	70.0	32.10	9.27	24.81
79.7	80.1	32.17	9.29	24.86
90.5	91.0	32.23	9.27	24.91
99.6	100.1	32.31	9.28	24.97
110.4	111.0	32.39	9.30	25.03
120.4	121.0	32.46	9.32	25.08
130.2	130.9	32.51	9.29	25.12
140.4	141.1	32.53	9.18	25.15
150.1	150.9	32.66	8.87	25.31
160.1	161.0	32.71	8.80	25.36
169.8	170.7	32.72	8.78	25.37

COASTAL ZONE OCEANOGRAPHY
CRUISE NO: 10 ALBERNI PROGRAM
LAT N 48 57.02
DATE 26/ 3/80
TIME (PST) 2327

TAPE: U01166 -169
LONG W 125 1.30
PASS NO. 50
STN: A7

DEPTH	PRESS	SAL	TEMP	SIGMA-T	OXYGEN
5.1	5.1	30.26	8.77	23.44	
10.1	10.1	30.99	8.97	23.98	
14.7	14.8	31.34	9.07	24.24	
20.7	20.8	31.60	9.18	24.43	
24.8	24.9	31.73	9.29	24.52	
30.0	30.1	31.78	9.32	24.55	
34.9	35.1	31.85	9.32	24.60	
39.9	40.1	31.91	9.35	24.65	
45.0	45.2	31.97	9.31	24.70	
49.7	49.9	32.00	9.33	24.72	4.88
60.6	60.9	32.06	9.27	24.78	
69.7	70.0	32.11	9.27	24.82	
74.6	75.0	32.11	9.28	24.82	5.13
80.2	80.6	32.14	9.30	24.84	
89.4	89.9	32.22	9.29	24.90	
99.4	100.0	32.28	9.31	24.94	5.17
110.5	111.1	32.42	9.34	25.05	
119.4	120.1	32.46	9.40	25.07	
124.3	125.0	32.56	9.36	25.15	4.91
130.5	131.2	32.59	9.24	25.20	
140.4	141.1	32.64	8.98	25.27	
150.3	151.1	32.69	8.90	25.33	1.96
160.1	161.0	32.71	8.84	25.35	
170.6	171.6	32.71	8.81	25.36	
180.0	181.0	32.73	8.80	25.37	
190.0	191.1	32.74	8.78	25.39	
200.0	201.2	32.74	8.77	25.39	1.80
215.6	216.8	32.74	8.77	25.39	

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COASTAL ZONE OCEANOGRAPHY

CRUISE NO:    10 ALBERNI PROGRAM           TAPE: U01166    -170
LAT  N 48 57.72                            LONG W 125  4.48
DATE 27/ 3/80                              PASS NO. 52
TIME (PST) 0013                            STN: A11

 DEPTH       PRESS        SAL        TEMP     SIGMA-T
   2.1         2.1       24.23       8.43     18.77
   5.1         5.1       29.85       8.79     23.12
  10.0        10.0       30.46       8.74     23.61
  14.7        14.8       31.22       9.12     24.14
  20.2        20.3       31.46       9.19     24.32
  24.7        24.8       31.50       9.15     24.36
  29.9        30.0       31.75       9.19     24.54
  34.9        35.0       31.78       9.21     24.57
  40.1        40.2       31.95       9.28     24.69
  44.7        44.9       32.02       9.26     24.75
  49.7        49.9       32.05       9.27     24.77
  59.8        60.1       32.10       9.27     24.81
  69.7        70.0       32.23       9.33     24.90
  79.5        79.9       32.31       9.36     24.96
  90.6        91.0       32.42       9.41     25.03
  99.6       100.1       32.51       9.46     25.10
 110.4       111.0       32.54       9.49     25.12
 120.4       121.0       32.57       9.51     25.14
 130.4       131.1       32.58       9.51     25.14
 140.3       141.1       32.57       9.52     25.14
 145.6       146.4       32.58       9.52     25.14
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COASTAL ZONE OCEANOGRAPHY
CRUISE NO: 10 ALBERNI PROGRAM TAPE: U01166 -171
LAT N 48 58.20 LONG W 125 7.80
DATE 27/ 3/80 PASS NO. 54
TIME (PST) 0042 STN: A12

DEPTH	PRESS	SAL	TEMP	SIGMA-T	OXYGEN
2.2	2.2	22.87	8.05	17.76	
4.9	4.9	29.03	8.65	22.50	
10.0	10.0	30.97	8.62	24.02	
14.9	15.0	31.09	8.64	24.11	
19.6	19.7	31.27	8.76	24.24	
24.8	24.9	31.38	8.85	24.31	
29.8	29.9	31.47	8.91	24.37	
34.8	35.0	31.78	9.21	24.57	
40.0	40.2	31.94	9.26	24.68	
44.9	45.1	32.08	9.26	24.79	
49.9	50.2	32.12	9.30	24.82	4.95
60.4	60.6	32.17	9.31	24.85	
69.6	69.9	32.33	9.36	24.97	
74.7	75.0	32.36	9.38	25.00	5.67
79.6	80.0	32.40	9.39	25.02	5.70
85.5	85.9	32.52	9.48	25.11	

CRUISE NO: 10 ALBERNI PROGRAM TAPE: U01166 -172
LAT N 48 54.15 LONG W 125 12.95
DATE 27/ 3/80 PASS NO. 55
TIME (PST) 0131 STN: A13

DEPTH	PRESS	SAL	TEMP	SIGMA-T
2.0	2.0	26.92	8.42	20.88
5.1	5.1	27.63	8.46	21.43
10.0	10.0	30.36	8.52	23.56
15.0	15.0	30.75	8.51	23.87
20.0	20.0	31.03	8.63	24.07
24.9	25.0	31.19	8.68	24.18
29.8	30.0	31.40	8.69	24.35
34.8	35.0	31.77	9.07	24.58
39.8	40.0	31.95	9.15	24.71
44.8	45.0	32.02	9.20	24.76
49.8	50.1	32.09	9.21	24.81
59.6	59.9	32.21	9.25	24.90
69.6	70.0	32.32	9.31	24.97
79.7	80.1	32.46	9.44	25.06
89.6	90.0	32.67	9.57	25.21
92.4	92.8	32.68	9.58	25.22

COASTAL ZONE OCEANOGRAPHY
CRUISE NO: 10 ALBERNI PROGRAM
LAT N 48 50.05
DATE 27/ 3/80
TIME (PST) 0205

TAPE: U01166 -173
LONG W 125 15.80
PASS NO. 57
STN: A14

DEPTH	PRESS	SAL	TEMP	SIGMA-T	OXYGEN
1.6	1.6	29.85	8.54	23.16	
4.8	4.8	30.80	8.66	23.89	
10.0	10.1	31.19	8.72	24.18	
15.0	15.1	31.33	8.73	24.29	
20.0	20.1	31.42	8.76	24.35	
24.8	24.9	31.44	8.74	24.38	
29.7	29.9	31.63	8.80	24.51	
34.9	35.1	31.90	8.94	24.70	
39.8	39.9	31.94	8.94	24.73	
44.7	45.0	31.97	8.95	24.75	
49.7	50.0	32.01	8.98	24.78	5.82
59.6	59.9	32.18	9.14	24.90	
69.5	69.9	32.38	9.36	25.01	
74.6	75.0	32.40	9.37	25.03	5.82
80.5	80.9	32.46	9.42	25.07	
85.5	85.9	32.53	9.49	25.11	

CRUISE NO: 10 ALBERNI PROGRAM
LAT N 48 48.20
DATE 27/ 3/80
TIME (PST) 0238

TAPE: U01166 -174
LONG W 125 14.40
PASS NO. 59
STN: A10

DEPTH	PRESS	SAL	TEMP	SIGMA-T
5.0	5.1	30.12	8.57	23.36
10.0	10.1	30.33	8.62	23.52
14.9	15.0	30.60	8.65	23.73
19.9	20.0	31.19	8.66	24.19
24.9	25.0	31.61	8.72	24.51
29.8	30.0	31.83	8.74	24.68
32.6	32.8	31.90	8.81	24.73
32.6	32.8	31.90	8.81	24.73

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COASTAL ZONE OCEANOGRAPHY
CRUISE NO:   10 ALBERNI PROGRAM          TAPE: U01166   -175
LAT  N 48 51.50                          LONG W 125  8.10
DATE 27/ 3/80                            PASS NO. 61
TIME (PST) 0325                          STN: A9

 DEPTH     PRESS      SAL       TEMP    SIGMA-T   OXYGEN
    .9        .9     25.32      7.92     19.70
   2.0       2.0     27.51      8.47     21.33
   5.0       5.0     28.46      8.63     22.06

  15.0      15.0     31.10      8.80     24.10
  19.9      20.0     31.28      8.86     24.23
  24.9      25.0     31.41      8.92     24.32
  29.9      30.0     31.62      9.10     24.46
  34.8      35.0     31.80      9.17     24.59
  39.7      39.9     31.85      9.11     24.64
  44.8      45.0     31.88      9.10     24.67
  50.0      50.2     31.97      9.10     24.73    5.50
  59.7      60.0     32.06      9.22     24.78
  69.7      70.0     32.19      9.49     24.84
  74.5      74.9     32.22      9.51     24.87    3.92
  79.5      79.9     32.23      9.51     24.87
  89.5      90.0     32.25      9.46     24.90
 100.4     100.9     32.32      9.40     24.96    3.64
 110.3     110.9     32.40      9.31     25.04
 120.3     121.0     32.48      9.25     25.11    2.80
 123.3     124.0     32.49      9.22     25.12
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COASTAL ZONE OCEANOGRAPHY

CRUISE NO: 10 ALBERNI PROGRAM
LAT N 48 53.78
DATE 27/ 3/80
TIME (PST) 0415

TAPE: U01166 -176
LONG W 125 3.05
PASS NO. 63
STN: A8

DEPTH	PRESS	SAL	TEMP	SIGMA-T
2.0	2.0	23.88	8.27	18.52
4.9	4.9	27.88	8.62	21.60
10.0	10.0	30.34	8.77	23.51
15.0	15.0	31.37	9.09	24.27
20.0	20.0	31.45	9.13	24.32
24.9	25.0	31.55	9.21	24.39
30.0	30.1	31.65	9.25	24.46
34.9	35.0	31.77	9.36	24.54
39.7	39.9	31.87	9.33	24.62
44.7	44.9	31.98	9.44	24.68
49.7	49.9	32.02	9.54	24.70
59.7	60.0	32.11	9.57	24.77
69.5	69.8	32.15	9.50	24.81
79.8	80.2	32.21	9.40	24.88
89.6	90.0	32.23	9.40	24.89
100.4	100.9	32.30	9.34	24.95
109.6	110.2	32.35	9.32	24.99
120.3	120.9	32.45	9.24	25.09
130.3	131.0	32.57	9.10	25.20
140.2	140.9	32.59	9.07	25.22
150.3	151.1	32.66	8.97	25.29
160.3	161.1	32.69	8.90	25.32
160.3	161.1	32.69	8.90	25.32

COASTAL ZONE OCEANOGRAPHY
CRUISE NO: 10 ALBERNI PROGRAM
TAPE: U01166 -177
LAT N 48 57.02
LONG W 125 1.30
DATE 27/ 3/80
PASS NO. 65
TIME (PST) 0503
STN: A7

DEPTH	PRESS	SAL	TEMP	SIGMA-T
2.1	2.1	19.14	8.07	14.84
5.0	4.9	29.69	8.77	23.00
10.0	10.0	31.01	9.05	23.99
15.0	15.0	31.30	9.18	24.20
20.0	20.0	31.37	9.08	24.27
24.9	25.0	31.63	9.21	24.45
29.9	30.0	31.77	9.31	24.54
34.9	35.0	31.92	9.36	24.65
39.9	40.0	31.93	9.33	24.67
44.8	45.0	31.97	9.26	24.71
49.8	50.0	32.00	9.33	24.72
59.5	59.8	32.08	9.26	24.79
69.7	70.0	32.11	9.27	24.82
79.7	80.1	32.16	9.28	24.85
89.6	90.0	32.21	9.28	24.89
100.5	101.0	32.29	9.31	24.95
110.6	111.2	32.34	9.33	24.99
120.3	120.9	32.45	9.24	25.08
130.5	131.1	32.54	9.30	25.15
140.3	141.1	32.62	9.09	25.25
150.2	151.0	32.68	8.92	25.32
160.1	161.0	32.69	8.88	25.33
170.0	171.0	32.72	8.81	25.36
180.0	181.0	32.73	8.79	25.38
189.8	190.9	32.74	8.77	25.38
199.8	200.9	32.75	8.77	25.39
224.6	226.0	32.74	8.77	25.39
246.5	247.9	32.74	8.77	25.39

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COASTAL ZONE OCEANOGRAPHY

CRUISE NO:    10 ALBERNI PROGRAM                    TAPE  U01166   -178
LAT  N  1  2.30                                     LONG W    4  5.60
DATE 27/ 3/80                                       PASS NO.  1
TIME (PST) 0001                                     STN: CYCLESONE

 DEPTH      PRESS        SAL        TEMP    SIGMA-T
    .6         .6      28.39        8.31     22.05
   2.4        2.4      28.61        8.23     22.23
   5.1        5.1      28.93        8.07     22.51
  10.0       10.1      29.43        7.74     22.94
  15.0       15.0      29.63        7.57     23.12
  19.9       20.0      29.66        7.56     23.15
  24.8       24.9      29.68        7.56     23.16
  29.9       30.0      29.71        7.54     23.19
  34.8       35.0      29.74        7.53     23.21
  39.8       40.0      29.77        7.56     23.23
  44.8       44.9      29.83        7.56     23.28
  50.0       50.2      29.89        7.57     23.32
  59.9       60.1      29.97        7.61     23.38
  69.7       70.0      30.09        7.69     23.47
  79.7       80.0      30.12        7.70     23.49
  82.5       82.8      30.14        7.70     23.51
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COASTAL ZONE OCEANOGRAPHY
CRUISE NO: 11 ALBERNI PROGRAM
LAT N 48 57.02
DATE 23/ 4/80
TIME (PST) 1114

TAPE: U01166 -179
LONG W 125 1.30
PASS NO. 39
STN: A7

DEPTH	PRESS	SAL	TEMP	SIGMA-T	OXYGEN
.3	.3	11.38	10.18	8.56	
2.1	2.1	25.37	10.00	19.45	
5.0	5.0	29.67	9.88	22.81	
10.0	10.0	30.27	9.58	23.33	
15.0	15.0	30.68	9.33	23.69	
20.0	20.0	31.00	9.26	23.95	
25.0	25.1	31.15	9.22	24.08	
29.9	30.0	31.23	9.19	24.14	
35.1	35.2	31.30	9.17	24.20	
39.9	40.0	31.39	9.17	24.27	
44.8	45.0	31.54	9.20	24.38	
49.8	50.0	31.82	9.21	24.60	4.87
59.7	59.9	32.02	9.21	24.75	
69.7	70.0	32.12	9.20	24.83	
74.7	75.0	32.15	9.23	24.86	4.26
79.6	80.0	32.19	9.28	24.88	
89.6	90.1	32.30	9.31	24.96	
99.6	100.1	32.37	9.31	25.01	4.24
110.4	111.0	32.44	9.29	25.07	
120.4	121.0	32.49	9.24	25.12	
125.4	126.1	32.51	9.23	25.13	3.99
130.3	131.0	32.53	9.22	25.15	
140.3	141.0	32.56	9.17	25.18	
150.2	151.0	32.62	9.07	25.24	2.92
160.1	161.0	32.66	8.99	25.29	
170.1	171.0	32.67	8.96	25.30	
180.0	181.0	32.68	8.93	25.32	
189.9	191.0	32.69	8.92	25.32	
200.0	201.1	32.69	8.90	25.33	2.27
218.6	219.8	32.70	8.89	25.34	

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COASTAL ZONE OCEANOGRAPHY

CRUISE NO:   11 ALBERNI PROGRAM          TAPE: U01166   -180
LAT  N 48 53.78                          LONG W 125  3.05
DATE 23/ 4/80                            PASS NO. 41
TIME (PST) 2113                          STN: A8

 DEPTH      PRESS       SAL       TEMP     SIGMA-T
    .9         .9     17.77      10.42      13.48
   2.0        2.0     27.39      10.22      20.98
   5.2        5.2     28.22      10.12      21.65
  10.0       10.0     30.13       9.72      23.20
  15.1       15.1     30.92       9.29      23.88
  19.9       20.0     31.08       9.20      24.02
  24.9       25.0     31.22       9.17      24.13
  30.0       30.1     31.26       9.16      24.17
  34.9       35.0     31.35       9.23      24.23
  39.9       40.1     31.44       9.27      24.29
  44.8       45.0     31.55       9.31      24.37
  49.8       50.0     31.68       9.33      24.47
  59.7       60.0     31.89       9.30      24.64
  69.7       70.0     32.08       9.28      24.79
  79.6       80.0     32.23       9.31      24.91
  89.5       90.0     32.29       9.31      24.95
  99.6      100.0     32.34       9.31      24.99
 110.5      111.0     32.42       9.27      25.06
 120.4      121.0     32.48       9.23      25.11
 130.4      131.0     32.52       9.18      25.15
 140.3      141.1     32.57       9.13      25.20
 150.2      151.0     32.60       9.09      25.23
 155.2      156.1     32.61       9.05      25.24
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COASTAL ZONE OCEANOGRAPHY
CRUISE NO:    11 ALBERNI PROGRAM          TAPE: U01166    -181
LAT  N 48 51.50                           LONG W 125  8.10
DATE 23/ 4/80                             PASS NO. 43
TIME (PST) 1251                           STN: A9

 DEPTH     PRESS     SAL      TEMP    SIGMA-T   OXYGEN
    .5        .5    16.89    11.49    12.65
   2.0       2.0    23.76    10.66    18.09
   5.0       5.0    29.90     9.90    22.99
  10.0      10.0    30.77     9.37    23.75
  14.9      15.0    30.96     9.26    23.92
  19.9      19.9    31.07     9.33    24.00
  25.0      25.1    31.23     9.31    24.12
  29.8      29.9    31.32     9.32    24.19
  34.9      35.0    31.42     9.20    24.29
  39.8      40.0    31.46     9.18    24.32
  44.7      44.9    31.58     9.22    24.41
  49.7      49.9    31.74     9.23    24.53   4.78
  59.8      60.1    31.99     9.28    24.72
  69.7      70.0    32.13     9.31    24.82
  74.7      75.0    32.19     9.30    24.87   3.83
  79.6      80.0    32.23     9.30    24.91
  89.6      90.0    32.31     9.29    24.97
  91.6      92.0    32.33     9.29    24.98

CRUISE NO:    11 ALBERNI PROGRAM          TAPE: U01166    -182
LAT  N 48 48.20                           LONG W 125 14.40
DATE 23/ 4/80                             PASS NO. 45
TIME (PST) 1346                           STN: A10

 DEPTH     PRESS     SAL      TEMP    SIGMA-T
    .7        .7    30.07    10.16    23.08
   2.0       2.0    30.12    10.16    23.12
   5.0       5.0    30.07    10.15    23.08
  10.1      10.1    30.56     9.88    23.51
  15.0      15.0    30.93     9.64    23.83
  19.7      19.8    31.04     9.57    23.93
  25.1      25.2    31.38     9.33    24.24
  30.0      30.1    31.46     9.25    24.31
  34.7      34.9    31.68     9.02    24.52
  39.8      40.0    31.77     8.95    24.60
  39.8      40.0    31.77     8.95    24.60
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COASTAL ZONE OCEANOGRAPHY
CRUISE NO:    11 ALBERNI PROGRAM            TAPE: U01166    -183
LAT   N 48 50.05                            LONG W 125 15.80
DATE 23/ 4/80                               PASS NO. 47
TIME (PST) 1410                             STN: A14

 DEPTH      PRESS       SAL       TEMP    SIGMA-T    OXYGEN
   1.8        1.8     27.37      10.72     20.89
   5.0        5.0     28.28      10.47     21.64
  10.0       10.1     30.10       9.87     23.15
  15.0       15.0     30.67       9.65     23.63
  20.5       20.6     31.11       9.55     23.99
  25.0       25.1     31.37       9.39     24.22
  29.8       29.9     31.56       9.28     24.39
  35.0       35.1     31.59       9.23     24.42
  39.8       40.0     31.63       9.23     24.44
  44.8       45.0     31.72       9.18     24.53
  49.8       50.0     31.91       9.00     24.70     5.47
  59.8       60.0     31.95       9.00     24.73
  69.7       70.0     32.13       8.89     24.89
  74.7       75.0     32.16       8.87     24.91     5.05
  79.7       80.1     32.21       8.84     24.96
  89.6       90.1     32.33       8.80     25.06     4.85
  94.1       94.6     32.33       8.80     25.06

CRUISE NO:    11 ALBERNI PROGRAM            TAPE: U01166    -184
LAT   N 48 54.15                            LONG W 125 12.95
DATE 23/ 4/80                               PASS NO. 49
TIME (PST) 1449                             STN: A13

 DEPTH      PRESS       SAL       TEMP    SIGMA-T
    .3         .3     24.37      11.22     18.48
   1.9        1.9     27.10      10.32     20.75
   5.1        5.1     27.78      10.50     21.25
   9.9       10.0     30.13       9.80     23.19
  15.0       15.0     30.76       9.30     23.75
  20.0       20.0     31.04       9.15     24.00
  24.9       25.0     31.18       9.23     24.09
  29.8       29.9     31.35       9.22     24.23
  34.9       35.0     31.49       9.21     24.34
  39.8       40.0     31.63       9.19     24.45
  44.8       45.0     31.72       9.12     24.53
  49.8       50.0     31.80       9.15     24.59
  59.8       60.0     32.00       9.22     24.74
  69.7       70.0     32.09       8.93     24.85
  79.6       80.0     32.15       8.91     24.90
  89.7       90.1     32.32       8.78     25.05
 100.5      101.0     32.33       8.77     25.06
 102.6      103.2     32.33       8.77     25.07
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COASTAL ZONE OCEANOGRAPHY
CRUISE NO:    11 ALBERNI PROGRAM            TAPE: U01166    -185
LAT  N 48 58.20                             LONG W 125  7.80
DATE 23/ 4/80                               PASS NO. 51
TIME (PST) 1527                             STN: A12

 DEPTH     PRESS      SAL      TEMP    SIGMA-T   OXYGEN
    .6        .6     22.81    10.82    17.34
   1.9       1.9     24.81    11.09    18.85
   5.0       5.0     27.65    10.33    21.17
  10.0      10.0     30.11     9.79    23.17
  14.9      14.9     30.71     9.28    23.72
  19.9      20.0     31.07     9.10    24.03
  24.9      25.0     31.22     9.08    24.15
  29.9      30.0     31.40     9.14    24.28
  34.8      34.9     31.52     9.16    24.37
  39.9      40.0     31.71     9.18    24.51
  44.9      45.0     31.77     9.20    24.56
  49.8      50.0     31.84     9.21    24.62    4.71
  59.7      59.9     32.01     9.22    24.75
  69.7      70.1     32.14     9.28    24.84
  74.6      75.0     32.15     9.29    24.85    4.34
  79.5      79.9     32.20     9.31    24.88
  89.5      90.0     32.28     9.34    24.94    3.94
  95.2      95.6     32.29     9.35    24.94

CRUISE NO:    11 ALBERNI PROGRAM            TAPE: U01166    -186
LAT  N 48 57.72                             LONG W 125  4.48
DATE 23/ 4/80                               PASS NO. 53
TIME (PST) 1601                             STN: A11

 DEPTH     PRESS      SAL      TEMP    SIGMA-T

   2.2       2.2     23.47    10.25    17.94
   5.0       5.0     29.09     9.81    22.37
  10.0      10.0     30.55     9.44    23.57
  15.0      15.0     30.66     9.40    23.66
  20.0      20.0     31.03     9.23    23.98
  24.9      24.9     31.16     9.18    24.09
  29.9      30.0     31.28     9.11    24.19
  34.9      35.0     31.36     9.11    24.26
  39.8      39.9     31.59     9.13    24.43
  44.8      44.9     31.67     9.11    24.49
  49.8      50.0     31.85     9.14    24.63
  59.7      60.0     32.08     9.18    24.80
  69.7      70.0     32.14     9.13    24.86
  79.7      80.0     32.16     9.09    24.89
  89.6      90.0     32.16     9.11    24.88
  94.5      95.0     32.18     9.13    24.89
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COASTAL ZONE OCEANOGRAPHY
CRUISE NO:   11 ALBERNI PROGRAM                   TAPE: U01166   -187
LAT  N 48 57.02                                   LONG W 125  1.30
DATE 23/ 4/80                                     PASS NO. 55
TIME (PST) 1627                                   STN: A7

 DEPTH     PRESS      SAL      TEMP    SIGMA-T
   2.1       2.1    22.32     10.08     17.06
   5.0       5.0    28.03      9.89     21.54
   9.9       9.9    29.99      9.71     23.09
  14.9      14.9    30.54      9.42     23.57
  19.9      19.9    31.09      9.23     24.03
  25.0      25.1    31.23      9.20     24.14
  29.9      30.0    31.30      9.19     24.20
  34.9      35.0    31.38      9.20     24.26
  39.8      40.0    31.50      9.13     24.36
  44.8      45.0    31.55      9.14     24.40
  49.8      50.0    31.70      9.15     24.51
  59.7      60.0    31.91      9.16     24.68
  69.7      70.0    32.08      9.17     24.81
  79.6      80.0    32.22      9.30     24.90
  89.6      90.0    32.26      9.31     24.93
  99.6     100.1    32.31      9.31     24.97
 110.5     111.0    32.36      9.31     25.00
 120.4     121.0    32.47      9.26     25.10
 130.2     130.8    32.51      9.23     25.14
 140.2     140.9    32.57      9.16     25.19
 150.2     151.0    32.62      9.06     25.25
 160.3     161.1    32.64      9.02     25.27
 170.2     171.1    32.67      8.96     25.30
 180.0     181.0    32.69      8.93     25.32
 189.9     191.0    32.69      8.92     25.33
 199.9     201.0    32.69      8.91     25.33
 211.7     212.9    32.70      8.89     25.34
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COASTAL ZONE OCEANOGRAPHY

CRUISE NO:    11 ALBERNI PROGRAM           TAPE: U01166    -188
LAT  N 48 58.78                            LONG W 124 57.80
DATE 23/ 4/80                              PASS NO. 58
TIME (PST) 1701                            STN: A6

 DEPTH      PRESS      SAL       TEMP    SIGMA-T
    .6         .6    10.94      10.30       8.19
   3.0        2.9    22.40      10.03      17.13
   5.2        5.2    29.80       9.82      22.93
  10.0       10.0    30.26       9.56      23.33
  15.0       15.0    30.64       9.34      23.66
  19.9       20.0    30.95       9.25      23.91
  24.9       25.0    31.06       9.25      24.00
  30.0       30.1    31.25       9.25      24.15
  34.9       35.0    31.34       9.22      24.23
  39.8       40.0    31.50       9.19      24.35
  44.8       44.9    31.66       9.22      24.48
  49.8       50.0    31.81       9.22      24.59
  59.8       60.1    32.00       9.22      24.73
  69.7       70.0    32.08       9.28      24.79
  79.6       80.0    32.18       9.30      24.87
  89.5       89.9    32.25       9.32      24.92
  99.6      100.1    32.34       9.33      24.99
 110.5      111.0    32.40       9.30      25.04
 120.5      121.1    32.46       9.25      25.09
 130.4      131.0    32.51       9.20      25.14
 140.3      141.0    32.57       9.10      25.20
 150.2      150.9    32.63       9.01      25.26
 160.2      161.0    32.66       8.94      25.30
 167.8      168.7    32.69       8.91      25.32
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COASTAL ZONE OCEANOGRAPHY
CRUISE NO: 11 ALBERNI PROGRAM
LAT N 48 59.58
DATE 23/ 4/80
TIME (PST) 1736

TAPE: U01166 -189
LONG W 124 53.38
PASS NO. 60
STN: A5

DEPTH	PRESS	SAL	TEMP	SIGMA-T	OXYGEN
2.0	2.0	22.81	9.94	17.46	
5.0	5.0	27.77	9.90	21.33	
10.1	10.1	30.10	9.64	23.19	
15.0	15.0	30.60	9.35	23.63	
20.0	20.0	31.00	9.27	23.95	
24.9	24.9	31.20	9.32	24.10	
29.9	30.0	31.35	9.33	24.21	
34.8	34.9	31.47	9.29	24.32	
39.9	40.0	31.56	9.26	24.39	
44.8	45.0	31.66	9.26	24.47	
49.9	50.1	31.79	9.28	24.56	4.67
59.8	60.0	31.94	9.30	24.68	
69.6	69.9	32.06	9.35	24.76	
74.8	75.1	32.11	9.38	24.80	4.32
79.5	79.9	32.16	9.37	24.84	
89.5	89.9	32.24	9.37	24.90	
99.6	100.0	32.31	9.36	24.96	4.39
110.4	110.9	32.36	9.34	25.00	
120.4	121.0	32.43	9.29	25.06	
125.4	126.0	32.46	9.27	25.09	3.86
130.3	130.9	32.50	9.21	25.13	
140.3	141.0	32.59	9.08	25.22	
150.1	150.9	32.64	9.00	25.27	3.04
160.2	161.0	32.67	8.94	25.30	
170.1	171.1	32.68	8.91	25.32	
180.0	181.0	32.68	8.90	25.32	
189.9	190.9	32.71	8.84	25.35	
199.9	201.0	32.75	8.78	25.39	2.05
224.6	225.9	32.76	8.75	25.40	
249.5	251.0	32.76	8.75	25.41	1.84
275.5	277.1	32.76	8.75	25.41	
300.1	301.9	32.77	8.75	25.41	1.74
310.0	311.9	32.77	8.74	25.41	

COASTAL ZONE OCEANOGRAPHY

CRUISE NO: 11 ALBERNI PROGRAM
TAPE: U01166 -190
LAT N 49 2.70
LONG W 124 51.11
DATE 23/ 4/80
PASS NO. 61
TIME (PST) 1851
STN: A4

DEPTH	PRESS	SAL	TEMP	SIGMA-T
1.6	1.6	13.31	10.17	10.06
5.1	5.0	25.45	9.85	19.53
10.0	10.0	29.98	9.69	23.09
15.0	15.0	30.57	9.33	23.61
19.9	20.0	31.02	9.32	23.96
24.9	24.9	31.24	9.44	24.11
29.9	30.0	31.40	9.50	24.22
35.0	35.1	31.46	9.47	24.28
39.9	40.0	31.65	9.54	24.42
44.8	45.0	31.80	9.49	24.54
49.8	50.0	31.87	9.51	24.59
59.8	60.0	32.05	9.44	24.74
69.6	69.9	32.15	9.43	24.82
79.7	80.0	32.27	9.42	24.91
89.7	90.1	32.33	9.42	24.96
99.6	100.1	32.38	9.38	25.01
110.5	111.0	32.43	9.29	25.06
120.4	121.0	32.47	9.24	25.10
130.4	131.1	32.52	9.19	25.15
140.1	140.9	32.58	9.10	25.21
150.3	151.1	32.62	9.04	25.25
160.2	161.0	32.64	8.99	25.28
170.0	170.9	32.67	8.95	25.31
180.1	181.0	32.69	8.91	25.33
189.9	191.0	32.73	8.85	25.37
199.9	201.0	32.74	8.80	25.39
224.8	226.1	32.76	8.76	25.41
249.6	251.0	32.77	8.75	25.41
273.4	275.0	32.77	8.74	25.42

COASTAL ZONE OCEANOGRAPHY

CRUISE NO: 11 ALBERNI PROGRAM
TAPE: U01166 -191
LAT N 49 5.50
LONG W 124 49.50
DATE 23/ 4/80
PASS NO. 63
TIME (PST) 1930
STN: A3

DEPTH	PRESS	SAL	TEMP	SIGMA-T
45.4	45.1	16.92	9.83	12.90
4.9	5.0	26.10	9.78	20.05
9.8	10.0	30.20	9.62	23.27
15.0	15.1	30.70	9.56	23.67
19.8	19.9	30.97	9.53	23.88
24.8	25.0	31.20	9.53	24.06
29.8	30.1	31.39	9.54	24.21
34.7	35.0	31.60	9.56	24.37
39.8	40.0	31.63	9.58	24.39
44.8	45.1	31.70	9.58	24.45
49.5	49.9	31.74	9.58	24.48
59.7	60.1	31.77	9.57	24.50
69.5	70.0	31.80	9.57	24.53
80.5	81.0	31.83	9.57	24.55
90.5	91.0	31.85	9.56	24.57
95.4	96.0	31.86	9.56	24.58

CRUISE NO: 11 ALBERNI PROGRAM
TAPE: U01166 -192
LAT N 49 7.15
LONG W 124 48.80
DATE 23/ 4/80
PASS NO. 66
TIME (PST) 2005
STN: A2

DEPTH	PRESS	SAL	TEMP	SIGMA-T	OXYGEN
2.0	2.0	8.28	10.27	6.14	
5.0	4.9	27.99	9.69	21.53	
10.0	9.9	29.81	9.65	22.96	
14.9	14.8	30.09	9.62	23.18	
19.9	19.9	30.49	9.56	23.50	
25.2	25.2	30.84	9.55	23.78	
29.9	30.0	30.99	9.56	23.90	
34.9	35.0	31.18	9.57	24.04	
39.9	40.0	31.36	9.59	24.18	
44.7	44.8	31.42	9.60	24.23	
49.9	50.1	31.60	9.61	24.36	3.91
59.7	59.9	31.73	9.67	24.46	
69.9	70.1	31.73	9.69	24.45	
74.7	75.0	31.79	9.75	24.49	3.09
79.6	79.9	31.87	9.70	24.56	
89.8	90.1	31.91	9.65	24.60	
99.5	99.9	31.93	9.64	24.62	3.70
109.6	110.1	31.94	9.63	24.63	
120.5	121.1	31.94	9.63	24.63	
124.5	125.0	31.94	9.63	24.63	3.69
130.3	130.9	31.95	9.63	24.63	
133.4	134.0	31.95	9.63	24.63	

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COASTAL ZONE OCEANOGRAPHY
CRUISE NO:    11 ALBERNI PROGRAM                TAPE: U01166    -193
LAT  N 49  9.91                                 LONG W 124 48.62
DATE 23/ 4/80                                   PASS NO. 68
TIME (PST) 2045                                 STN: A1

 DEPTH      PRESS      SAL      TEMP    SIGMA-T    OXYGEN

   2.0        2.0      6.24     10.26     4.55
   5.2        5.2     24.28      9.68    18.64
  10.1       10.1     29.56      9.58    22.77
  15.0       15.0     29.95      9.57    23.08
  19.9       19.9     30.34      9.45    23.41
  24.9       24.9     30.69      9.52    23.67
  30.0       30.0     30.94      9.55    23.86
  35.6       35.6     31.15      9.59    24.02
  39.8       39.9     31.30      9.61    24.13
  44.9       45.1     31.42      9.66    24.22
  50.0       50.2     31.55      9.78    24.30    2.71
  59.6       59.9     31.72      9.75    24.43
  69.7       69.9     31.82      9.72    24.51
  74.8       75.1     31.84      9.71    24.54    3.20
  80.2       80.5     31.88      9.68    24.57
  89.7       90.0     31.92      9.66    24.61
  98.3       98.7     31.94      9.65    24.62

CRUISE NO:    11 ALBERNI PROGRAM                TAPE: U01166    -194
LAT  N 49 12.16                                 LONG W 124 49.02
DATE 23/ 4/80                                   PASS NO. 69
TIME (PST) 2111                                 STN: A0

 DEPTH      PRESS      SAL      TEMP    SIGMA-T
    .5         .4      4.10     10.25     2.89
   1.9        1.9      7.84     10.07     5.81
   5.1        5.0     17.71      9.84    13.51
  10.0        9.9     29.35      9.53    22.62
  15.1       15.0     30.02      9.51    23.15
  20.1       20.0     30.47      9.53    23.49
  25.0       25.0     30.91      9.62    23.82
  30.0       30.0     31.16      9.70    24.01
  35.0       35.0     31.29      9.74    24.10
  39.9       40.0     31.37      9.75    24.16
  44.9       45.0     31.50      9.75    24.26
  49.8       50.0     31.58      9.76    24.32
  54.5       54.7     31.63      9.75    24.36
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COASTAL ZONE OCEANOGRAPHY
CRUISE NO: 12 ALBERNI PROGRAM
LAT N 49 12.16
DATE 13/ 6/80
TIME (PST) 1209

TAPE: U01166 -195
LONG W 124 49.02
PASS NO. 74
STN: A0

DEPTH	PRESS	SAL	TEMP	SIGMA-T
4.7	4.6	12.60	15.55	8.68
4.9	4.8	13.07	15.08	9.12
9.9	9.8	29.74	10.28	22.81
14.9	14.8	31.64	9.65	24.39
20.1	20.0	31.83	9.59	24.55
25.6	25.6	31.98	9.49	24.68
29.9	29.9	32.04	9.45	24.73
35.0	35.0	32.08	9.42	24.77
39.8	39.9	32.14	9.38	24.83
44.6	44.7	32.17	9.34	24.85
49.9	50.1	32.19	9.31	24.87
58.4	58.6	32.22	9.29	24.90

CRUISE NO: 12 ALBERNI PROGRAM
LAT N 49 9.91
DATE 13/ 6/80
TIME (PST) 1326

TAPE: U01166 -196
LONG W 124 48.62
PASS NO. 78
STN: A1

DEPTH	PRESS	SAL	TEMP	SIGMA-T	OXYGEN
4.7	4.6	14.21	14.96	10.02	
5.0	4.9	15.00	14.88	10.63	
10.1	10.1	22.38	12.93	16.65	
15.0	15.0	31.68	9.59	24.43	
20.0	19.9	31.84	9.55	24.56	
25.1	25.1	31.96	9.48	24.66	
30.0	30.0	32.05	9.43	24.75	
35.1	35.1	32.11	9.39	24.80	
40.0	40.1	32.14	9.36	24.82	
45.0	45.1	32.17	9.33	24.85	
49.9	50.0	32.20	9.30	24.88	3.51
59.8	60.0	32.23	9.28	24.91	
69.7	69.9	32.24	9.27	24.92	
74.9	75.2	32.25	9.25	24.93	3.51
79.6	79.9	32.26	9.24	24.93	
89.7	90.0	32.27	9.23	24.94	
99.7	100.1	32.27	9.23	24.95	3.47
109.6	110.1	32.28	9.22	24.96	
113.3	113.8	32.28	9.22	24.96	

COASTAL ZONE OCEANOGRAPHY
CRUISE NO: 12 ALBERNI PROGRAM TAPE: U01166 -197
LAT N 49 7.15 LONG W 124 48.80
DATE 13/ 6/80 PASS NO. 82
TIME (PST) 1425 STN: A2

DEPTH	PRESS	SAL	TEMP	SIGMA-T	OXYGEN
5.0	4.9	15.43	15.23	10.90	
10.2	10.1	25.45	11.82	19.22	
15.0	15.0	31.58	9.62	24.34	
20.0	20.0	31.84	9.45	24.58	
24.9	25.0	31.96	9.38	24.68	
30.0	30.0	31.98	9.38	24.70	
35.0	35.1	32.02	9.36	24.73	
39.8	39.9	32.09	9.31	24.79	
44.9	45.0	32.13	9.30	24.83	
49.9	50.1	32.15	9.30	24.84	3.52
59.8	60.0	32.18	9.30	24.87	
69.7	70.0	32.20	9.29	24.88	
74.8	75.0	32.21	9.28	24.89	3.56
79.7	80.0	32.21	9.27	24.90	
89.7	90.1	32.23	9.25	24.92	
99.6	100.0	32.24	9.24	24.92	3.56
109.5	110.0	32.25	9.24	24.93	
120.5	121.1	32.26	9.23	24.94	
125.4	126.0	32.26	9.23	24.94	3.51
130.4	131.0	32.26	9.23	24.94	
138.2	138.8	32.27	9.23	24.95	

CRUISE NO: 12 ALBERNI PROGRAM TAPE: U01166 -198
LAT N 49 5.50 LONG W 124 49.50
DATE 13/ 6/80 PASS NO. 85
TIME (PST) 1538 STN: A3

DEPTH	PRESS	SAL	TEMP	SIGMA-T
5.0	5.0	18.27	14.49	13.22
10.1	10.1	28.80	10.64	22.02
15.1	15.0	31.52	9.65	24.29
20.0	20.0	31.83	9.50	24.56
25.0	25.0	31.86	9.50	24.58
30.0	30.0	31.96	9.41	24.68
35.1	35.1	32.04	9.35	24.75
40.1	40.2	32.18	9.27	24.87
44.8	44.9	32.19	9.26	24.88
49.8	50.0	32.21	9.25	24.90
59.8	60.0	32.27	9.21	24.95
69.7	69.9	32.34	9.16	25.01
79.7	80.0	32.42	9.10	25.08
89.7	90.1	32.48	9.06	25.14
99.6	100.0	32.50	9.05	25.15
102.5	103.0	32.49	9.05	25.15

COASTAL ZONE OCEANOGRAPHY
CRUISE NO: 12 ALBERNI PROGRAM TAPE: U01166 -199
LAT N 49 2.70 LONG W 124 51.11
DATE 13/ 6/80 PASS NO. 87
TIME (PST) 1615 STN: A4

DEPTH	PRESS	SAL	TEMP	SIGMA-T
.6	.6	24.03	13.03	17.91
5.0	5.0	24.20	13.02	18.04
9.9	9.9	24.47	12.91	18.27
15.0	15.0	31.25	9.94	24.04
19.8	19.9	31.66	9.64	24.40
25.0	25.1	31.78	9.59	24.51
29.8	29.9	31.90	9.47	24.62
34.9	35.0	32.02	9.39	24.73
40.0	40.1	32.10	9.33	24.80
45.1	45.2	32.17	9.28	24.86
49.9	50.1	32.27	9.21	24.95
59.8	60.0	32.43	9.01	25.10
69.7	70.0	32.58	8.98	25.23
79.6	80.0	32.61	8.90	25.27
89.6	90.0	32.68	8.79	25.33
99.6	100.0	32.70	8.76	25.36
110.5	111.0	32.73	8.74	25.38
120.4	121.1	32.73	8.75	25.39
130.3	131.0	32.74	8.74	25.39
140.2	140.9	32.74	8.74	25.39
150.2	151.0	32.73	8.68	25.39
160.1	161.0	32.72	8.59	25.40
170.2	171.2	32.71	8.52	25.40
180.0	181.0	32.71	8.52	25.40
189.9	191.0	32.72	8.51	25.41
199.8	201.0	32.72	8.49	25.41
224.8	226.1	32.74	8.45	25.44
249.6	251.1	32.75	8.45	25.44
275.4	277.1	32.76	8.45	25.45
281.3	283.0	32.76	8.45	25.45

COASTAL ZONE OCEANOGRAPHY

CRUISE NO: 12 ALBERNI PROGRAM
LAT N 48 59.58
DATE 13/ 6/80
TIME (PST) 1706

TAPE: U01166 -200
LONG W 124 53.38
PASS NO. 89
STN: A5

DEPTH	PRESS	SAL	TEMP	SIGMA-T	OXYGEN
5.1	5.1	26.59	12.91	19.91	
10.1	10.1	31.53	10.19	24.22	
14.8	14.9	31.75	9.82	24.45	
20.0	20.0	31.83	9.67	24.53	
25.1	25.2	31.93	9.46	24.65	
29.9	30.0	32.01	9.37	24.72	
34.9	35.1	32.12	9.33	24.81	
39.8	40.0	32.19	9.26	24.88	
44.7	44.9	32.27	9.19	24.96	
49.9	50.2	32.42	9.00	25.10	3.53
59.7	60.0	32.58	8.90	25.24	
69.8	70.2	32.66	8.82	25.31	
74.6	75.0	32.66	8.81	25.32	4.14
79.7	80.1	32.67	8.80	25.32	
89.5	90.0	32.67	8.79	25.33	
100.3	100.9	32.70	8.74	25.36	2.68
110.5	111.1	32.72	8.70	25.38	
120.3	121.0	32.73	8.68	25.39	
125.4	126.1	32.72	8.68	25.39	2.45
130.3	131.1	32.73	8.66	25.39	
140.2	141.0	32.72	8.63	25.40	
150.1	151.0	32.72	8.58	25.40	2.60
160.0	161.0	32.72	8.55	25.40	
170.0	171.0	32.72	8.52	25.41	
179.9	181.0	32.73	8.49	25.42	
189.8	191.0	32.74	8.49	25.43	
199.7	200.9	32.74	8.49	25.43	3.03
224.7	226.1	32.76	8.47	25.44	
250.3	251.8	32.77	8.46	25.45	2.97
275.3	277.1	32.77	8.45	25.46	
300.0	301.9	32.77	8.45	25.46	
320.9	322.9	32.77	8.45	25.46	

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COASTAL ZONE OCEANOGRAPHY
CRUISE NO:   12 ALBERNI PROGRAM                     TAPE: U01166   -201
LAT  N 48 58.78                                     LONG W 124 57.80
DATE 13/ 6/80                                       PASS NO. 91
TIME (PST) 1807                                     STN: A6

 DEPTH      PRESS       SAL        TEMP     SIGMA-T
   2.3        2.3      28.58      12.20      21.58
   5.0        5.0      28.68      12.09      21.67
  10.1       10.1      31.57      10.20      24.25
  15.0       15.1      31.71       9.96      24.39
  20.0       20.0      31.80       9.76      24.49
  24.9       25.0      31.90       9.51      24.61
  29.9       30.1      32.01       9.37      24.72
  34.8       35.0      32.11       9.30      24.81
  39.7       39.9      32.17       9.24      24.87
  44.8       45.0      32.28       9.14      24.97
  49.8       50.0      32.38       9.01      25.07
  59.7       60.0      32.52       8.91      25.20
  69.6       70.0      32.60       8.83      25.27
  79.5       80.0      32.63       8.78      25.30
  89.6       90.0      32.67       8.74      25.33
 100.4      100.9      32.70       8.70      25.37
 110.3      110.9      32.71       8.66      25.38
 120.5      121.2      32.72       8.64      25.39
 130.2      131.0      32.72       8.63      25.40
 140.3      141.1      32.73       8.56      25.41
 150.1      151.0      32.75       8.48      25.44
 160.1      161.0      32.83       8.32      25.52
 170.0      171.0      32.87       8.24      25.57
 176.7      177.7      32.88       8.23      25.58
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COASTAL ZONE OCEANOGRAPHY

CRUISE NO: 12 ALBERNI PROGRAM TAPE: U01166 -202
LAT N 48 57.02 LONG W 125 1.30
DATE 13/ 6/80 PASS NO. 93
TIME (PST) 1850 STN: A7

DEPTH	PRESS	SAL	TEMP	SIGMA-T	OXYGEN
2.7	2.7	27.53	13.36	20.55	
4.9	4.9	27.70	13.47	20.66	
10.1	10.1	30.00	11.53	22.80	
15.0	15.0	31.80	9.92	24.47	
19.9	20.0	31.87	9.70	24.56	
25.0	25.1	31.94	9.51	24.65	
30.0	30.1	32.01	9.35	24.72	
34.9	35.0	32.05	9.31	24.77	
39.8	40.0	32.14	9.27	24.84	
44.7	44.9	32.26	9.18	24.94	
49.8	50.1	32.38	8.99	25.07	3.79
59.7	60.0	32.56	8.81	25.24	
69.6	69.9	32.62	8.73	25.30	
74.7	75.0	32.64	8.69	25.32	3.53
79.6	80.1	32.65	8.67	25.33	
89.5	90.0	32.66	8.62	25.35	
100.5	101.0	32.69	8.64	25.37	3.21
110.4	111.1	32.70	8.62	25.38	
120.3	120.9	32.73	8.62	25.40	
125.3	126.0	32.74	8.55	25.42	3.09
130.4	131.1	32.74	8.49	25.43	
140.2	141.0	32.76	8.50	25.44	
150.1	151.0	32.78	8.39	25.48	3.08
160.2	161.2	32.84	8.31	25.54	
170.0	171.0	32.86	8.28	25.56	
179.8	180.9	32.87	8.26	25.57	
189.7	190.9	32.89	8.24	25.58	
199.8	201.0	32.89	8.24	25.58	2.99
212.7	214.0	32.89	8.24	25.58	

COASTAL ZONE OCEANOGRAPHY
CRUISE NO: 12 ALBERNI PROGRAM TAPE: U01166 -203
LAT N 48 57.72 LONG W 125 4.48
DATE 13/ 6/80 PASS NO. 95
TIME (PST) 1936 STN: A11

DEPTH	PRESS	SAL	TEMP	SIGMA-T
4.7	4.9	27.26	13.69	20.28
9.8	10.0	31.25	10.83	23.89
14.8	15.0	31.68	10.09	24.35
19.7	20.0	31.85	9.64	24.55
24.7	25.0	31.89	9.53	24.60
29.7	30.0	31.97	9.40	24.69
34.6	35.0	32.07	9.25	24.79
39.7	40.0	32.15	9.20	24.86
44.7	45.1	32.22	9.12	24.93
49.5	49.9	32.32	8.99	25.02
59.6	60.1	32.52	8.82	25.20
69.6	70.1	32.60	8.73	25.28
79.5	80.1	32.69	8.59	25.37
90.4	91.0	32.82	8.32	25.52
100.3	101.0	32.88	8.22	25.58
110.2	111.0	32.91	8.18	25.61
120.1	121.0	32.93	8.15	25.63
130.2	131.1	32.94	8.14	25.64
140.1	141.1	32.94	8.14	25.64
150.0	151.0	32.93	8.15	25.63
160.0	161.1	32.93	8.15	25.63
166.9	168.1	32.94	8.14	25.64

CRUISE NO: 12 ALBERNI PROGRAM TAPE: U01166 -204
LAT N 48 58.20 LONG W 125 7.80
DATE 13/ 6/80 PASS NO. 97
TIME (PST) 2010 STN: A12

DEPTH	PRESS	SAL	TEMP	SIGMA-T	OXYGEN
5.0	5.0	29.25	12.91	21.97	
10.0	10.1	30.55	11.61	23.21	
15.1	15.1	31.72	10.16	24.37	
19.9	20.0	31.84	9.71	24.53	
24.9	25.0	31.91	9.55	24.62	
29.9	30.0	31.96	9.43	24.68	
34.9	35.1	32.02	9.30	24.74	
39.8	40.0	32.09	9.18	24.82	
44.8	45.0	32.16	9.11	24.88	
49.7	49.9	32.24	9.03	24.96	3.89
59.7	60.0	32.46	8.81	25.16	
69.7	70.0	32.66	8.61	25.35	
74.6	75.0	32.75	8.47	25.44	3.03
79.5	79.9	32.82	8.33	25.52	
90.5	91.0	32.86	8.26	25.56	2.82
93.4	93.9	32.94	8.15	25.63	

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COASTAL ZONE OCEANOGRAPHY
CRUISE NO:    12 ALBERNI PROGRAM          TAPE: U01166    -205
LAT  N 48 54.15                           LONG W 125 12.95
DATE 13/ 6/80                             PASS NO. 99
TIME (PST) 2105                           STN: A13

 DEPTH      PRESS       SAL       TEMP    SIGMA-T
   2.1        2.1     30.86      12.28     23.33
   5.0        5.0     30.98      11.77     23.52
   9.9        9.9     31.41      11.03     23.98
  14.9       15.0     31.76      10.02     24.42
  20.0       20.0     31.81       9.82     24.49
  24.9       25.0     31.86       9.68     24.55
  29.9       30.1     31.99       9.39     24.70
  34.8       35.0     32.08       9.21     24.80
  39.8       40.0     32.13       9.13     24.85
  44.8       45.0     32.17       9.06     24.90
  49.7       50.0     32.21       8.98     24.94
  59.7       60.0     32.35       8.89     25.07
  69.7       70.1     32.47       8.82     25.17
  80.5       80.9     32.65       8.62     25.34
  89.5       90.0     32.90       8.19     25.60
 100.3      100.9     32.97       8.10     25.67
 103.4      103.9     32.97       8.10     25.67

CRUISE NO:    12 ALBERNI PROGRAM          TAPE: U01166    -206
LAT  N 48 50.05                           LONG W 125 15.80
DATE 13/ 6/80                             PASS NO.101
TIME (PST) 2141                           STN: A14

 DEPTH      PRESS       SAL       TEMP    SIGMA-T    OXYGEN
   5.1        5.1     31.15      11.12     23.76
  10.0       10.0     31.63      10.09     24.31
  14.9       15.0     31.80       9.57     24.52
  20.0       20.1     31.82       9.36     24.58
  24.9       25.0     31.87       9.34     24.62
  29.9       30.0     31.94       9.28     24.68
  34.8       34.9     32.09       9.07     24.83
  39.8       40.0     32.18       8.97     24.92
  44.9       45.1     32.19       8.96     24.93
  49.9       50.1     32.23       8.93     24.96    3.94
  59.7       60.0     32.37       8.83     25.09
  69.7       70.1     32.66       8.55     25.36
  74.6       75.0     32.69       8.42     25.40    3.60
  80.4       80.9     32.79       8.31     25.49
  90.5       91.0     32.92       8.17     25.62
  95.4       95.9     32.97       8.14     25.66    3.40
  99.3       99.9     32.97       8.14     25.66
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COASTAL ZONE OCEANOGRAPHY
CRUISE NO:    12 ALBERNI PROGRAM
LAT   N 48 48.20                                TAPE: U01166    -207
DATE 13/ 6/80                                   LONG W 125 14.40
TIME (PST) 2212                                 PASS NO.103
                                                STN: A10

 DEPTH     PRESS       SAL       TEMP    SIGMA-T

   5.1       5.1      31.62      10.06    24.31
   9.9      10.0      31.60      10.08    24.29
  15.0      15.1      31.67       9.95    24.36
  20.0      20.0      31.67       9.97    24.36
  24.9      25.0      31.68       9.73    24.41
  29.9      30.1      32.12       8.83    24.89
  34.9      35.1      32.39       8.59    25.14
  39.8      40.0      32.58       8.45    25.31
  44.5      44.7      32.62       8.42    25.35

CRUISE NO:    12 ALBERNI PROGRAM
LAT   N 48 51.50                                TAPE: U01166    -208
DATE 13/ 6/80                                   LONG W 125   8.10
TIME (PST) 2256                                 PASS NO.106
                                                STN: A9

 DEPTH     PRESS       SAL       TEMP    SIGMA-T   OXYGEN

   5.0       5.1      30.48      11.95    23.09
  10.0      10.0      31.05      11.24    23.66
  15.0      15.1      31.71      10.09    24.37
  19.9      20.0      31.74       9.93    24.42
  24.9      25.0      31.80       9.77    24.50
  29.8      30.0      31.86       9.62    24.57
  34.9      35.0      32.03       9.36    24.74
  39.8      40.0      32.08       9.28    24.79
  44.9      45.1      32.19       9.12    24.90
  49.7      49.9      32.33       8.99    25.03     3.60
  59.8      60.1      32.41       8.94    25.10
  69.7      70.0      32.55       8.82    25.23
  74.6      75.0      32.58       8.78    25.26     2.97
  79.5      80.0      32.59       8.77    25.27
  89.6      90.1      32.63       8.70    25.31     3.03
  92.5      93.0      32.64       8.68    25.32
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COASTAL ZONE OCEANOGRAPHY
CRUISE NO:   12 ALBERNI PROGRAM                   TAPE: U01166    -209
LAT  N 48 53.78                                   LONG W 125   3.05
DATE 13/ 6/80                                     PASS NO.108
TIME (PST) 2342                                   STN: A8

 DEPTH       PRESS        SAL        TEMP     SIGMA-T
   2.0         2.0      29.17       13.19      21.85
   5.0         5.0      29.30       13.06      21.97
  10.0        10.0      30.85       11.26      23.50
  14.9        14.9      31.69       10.11      24.35
  19.8        19.9      31.77        9.93      24.45
  25.0        25.1      31.88        9.59      24.59
  29.9        30.0      31.95        9.46      24.66
  34.9        35.0      32.06        9.28      24.77
  39.8        40.0      32.11        9.24      24.82
  44.8        45.0      32.23        9.12      24.93
  49.8        50.0      32.30        9.04      25.00
  59.8        60.1      32.49        8.86      25.18
  69.6        70.0      32.58        8.78      25.26
  79.5        80.0      32.62        8.74      25.30
  89.5        90.0      32.65        8.66      25.33
 100.5       101.0      32.66        8.63      25.34
 110.4       111.0      32.67        8.60      25.36
 120.3       121.0      32.69        8.55      25.38
 130.2       131.0      32.71        8.52      25.40
 140.1       140.9      32.73        8.47      25.42
 150.1       151.0      32.76        8.41      25.46
 160.1       161.0      32.76        8.41      25.46
 170.0       171.0      32.78        8.38      25.48
 178.5       179.6      32.80        8.36      25.50
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COASTAL ZONE OCEANOGRAPHY

CRUISE NO: 12 ALBERNI PROGRAM
TAPE: U01166 -210
LAT N 48 57.02
LONG W 125 1.30
DATE 14/ 6/80
PASS NO.111
TIME (PST) 0042
STN: A7

DEPTH	PRESS	SAL	TEMP	SIGMA-T
5.1	5.1	27.83	13.66	20.73
10.0	10.0	27.94	13.66	20.81
14.9	15.0	31.75	10.21	24.38
20.0	20.1	31.81	9.84	24.49
24.8	24.9	31.85	9.72	24.54
29.8	29.9	31.96	9.47	24.67
34.8	35.0	32.08	9.30	24.79
39.8	39.9	32.22	9.15	24.92
44.7	44.9	32.27	9.11	24.96
49.8	50.0	32.31	9.05	25.01
59.7	60.0	32.52	8.83	25.20
69.7	70.0	32.61	8.74	25.29
79.7	80.1	32.62	8.72	25.30
89.6	90.0	32.64	8.67	25.33
100.4	100.9	32.67	8.61	25.35
110.4	111.0	32.69	8.59	25.37
120.4	121.0	32.71	8.61	25.39
130.4	131.1	32.74	8.50	25.43
140.2	141.0	32.75	8.47	25.44
150.2	151.0	32.77	8.44	25.46
160.1	161.0	32.77	8.44	25.46
169.9	170.9	32.81	8.36	25.51
179.9	181.0	32.84	8.32	25.53
189.8	191.0	32.86	8.29	25.55
199.4	200.6	32.88	8.25	25.57

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COASTAL ZONE OCEANOGRAPHY
CRUISE NO:  12A ALBERNI PROGRAM              TAPE: U01166    -211
LAT  N 49 12.16                              LONG W 124 49.02
DATE 25/ 7/80                                PASS NO.  0
TIME (PST) 0815                              STN: A0

 DEPTH     PRESS      SAL      TEMP    SIGMA-T
    .1        .1     12.58     18.38     8.10
   2.1       2.0     14.24     18.06     9.43
   5.0       5.0     25.05     13.15    18.67
  10.0      10.0     31.75      9.66    24.47
  15.0      15.0     31.92      9.53    24.62
  20.1      20.2     32.07      9.44    24.76
  24.8      24.8     32.13      9.39    24.82
  30.0      30.1     32.22      9.31    24.90
  35.0      35.1     32.26      9.27    24.93
  39.6      39.8     32.27      9.26    24.95
  45.0      45.2     32.29      9.24    24.96
  49.7      49.9     32.29      9.23    24.97
  51.3      51.5     32.29      9.23    24.97

CRUISE NO:  12A ALBERNI PROGRAM              TAPE: U01166    -212
LAT  N 49  9.91                              LONG W 124 48.62
DATE 25/ 7/80                                PASS NO.  0
TIME (PST) 0852                              STN: A1

 DEPTH     PRESS      SAL      TEMP    SIGMA-T   OXYGEN
    .0        .0     13.10     18.43     8.49     5.08
   1.6       1.6     17.91     18.02    12.23
   4.9       4.9     22.93     15.07    16.68
  10.0      10.0     31.72      9.77    24.43
  15.2      15.2     31.90      9.59    24.60
  19.9      20.0     32.05      9.47    24.74
  25.2      25.3     32.15      9.39    24.83
  30.1      30.2     32.20      9.33    24.87
  35.1      35.2     32.23      9.29    24.91
  40.0      40.1     32.25      9.28    24.92
  45.0      45.2     32.28      9.24    24.95
  50.1      50.3     32.29      9.23    24.96     2.45
  59.9      60.2     32.31      9.22    24.98
  69.7      70.0     32.34      9.18    25.01
  74.8      75.2     32.33      9.19    25.00     2.77
  80.0      80.4     32.34      9.18    25.01
  89.7      90.1     32.35      9.18    25.02
 100.0     100.5     32.35      9.18    25.02     2.62
 100.0     100.5     32.35      9.18    25.02
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COASTAL ZONE OCEANOGRAPHY
CRUISE NO:  12A ALBERNI PROGRAM                    TAPE: U01166   -213
LAT  N 49  7.15                                    LONG W 124 48.80
DATE 25/ 7/80                                      PASS NO.  0
TIME (PST) 0953                                    STN: A2

 DEPTH      PRESS       SAL       TEMP    SIGMA-T   OXYGEN
    .1         .1      16.54     17.77     11.24    5.55
   1.5        1.5      18.22     17.23     12.64
   5.3        5.2      28.98     11.66     21.98
  10.2       10.2      31.48      9.93     24.21
  15.1       15.1      31.85      9.67     24.55
  20.2       20.3      31.93      9.60     24.62
  25.0       25.1      31.96      9.56     24.66
  30.0       30.1      32.14      9.40     24.82
  34.9       35.0      32.14      9.39     24.82
  40.1       40.2      32.18      9.36     24.85
  45.0       45.2      32.21      9.32     24.89
  50.1       50.3      32.22      9.32     24.89    3.19
  60.0       60.3      32.24      9.29     24.91
  69.9       70.3      32.27      9.27     24.94
  80.1       80.5      32.33      9.19     25.00
  84.7       85.1      32.32      9.21     24.99

CRUISE NO:  12A ALBERNI PROGRAM                    TAPE: U01166   -214
LAT  N 49  5.50                                    LONG W 124 49.50
DATE 25/ 7/80                                      PASS NO.  0
TIME (PST) 1039                                    STN: A3

 DEPTH      PRESS       SAL       TEMP    SIGMA-T
    .0         .0      28.76     17.82     20.55
   3.0        3.0      28.77     16.99     20.75
   5.0        5.0      28.77     12.81     21.61
  10.0       10.0      31.96      9.70     24.63
  15.9       16.0      32.00      9.63     24.68
  19.9       20.0      32.13      9.52     24.80
  24.9       25.0      32.26      9.35     24.92
  30.9       31.0      32.32      9.28     24.98
  34.8       35.0      32.37      9.25     25.03
  40.8       41.0      32.41      9.16     25.07
  44.8       45.0      32.50      9.08     25.15
  49.8       50.0      32.55      9.02     25.20
  59.7       60.0      32.63      8.90     25.28
  62.7       63.0      32.64      8.90     25.29
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COASTAL ZONE OCEANOGRAPHY
CRUISE NO:  12A ALBERNI PROGRAM          TAPE: U01166   -215
LAT  N 48 58.78                          LONG W 124 57.80
DATE 25/ 7/80                            PASS NO.  0
TIME (PST) 1258                          STN: A6

 DEPTH     PRESS       SAL       TEMP    SIGMA-T
    .0        .0     28.76      17.99     20.51
   2.0       2.0     29.49      14.55     21.83
   5.0       5.0     31.82      10.95     24.31
  10.0      10.0     31.87      10.38     24.45
  14.9      15.0     31.98       9.90     24.62
  19.9      20.0     32.13       9.57     24.79
  24.9      25.0     32.20       9.36     24.88
  29.9      30.0     32.24       9.31     24.91
  34.8      35.0     32.33       9.23     25.00
  39.8      40.0     32.40       9.12     25.07
  45.8      46.0     32.45       9.03     25.12
  49.7      50.0     32.58       8.89     25.25
  58.7      59.0     32.71       8.77     25.37
  69.6      70.0     32.77       8.64     25.43
  79.6      80.0     32.80       8.55     25.47
  87.5      88.0     32.83       8.47     25.51
 100.4     101.0     32.84       8.46     25.52
 109.4     110.0     32.87       8.42     25.54
 119.3     120.0     32.87       8.42     25.54
 130.2     131.0     32.90       8.42     25.57
 140.2     141.0     32.92       8.43     25.58
 149.1     150.0     32.95       8.42     25.61
 158.0     159.0     32.96       8.42     25.62
 170.0     171.0     32.98       8.41     25.63
 170.0     171.0     32.98       8.41     25.63

CRUISE NO:  12A ALBERNI PROGRAM          TAPE: U01166   -216
LAT  N 48 57.72                          LONG W 125  4.48
DATE 25/ 7/80                            PASS NO.  0
TIME (PST) 1451                          STN: A11

 DEPTH     PRESS       SAL       TEMP    SIGMA-T
   1.2       1.2     31.64      11.46     24.08
  10.1      10.1     31.92      10.16     24.53
  15.2      15.3     32.05       9.76     24.69
  20.0      20.1     32.13       9.52     24.80
  34.9      35.1     32.39       9.15     25.06
  44.9      45.1     32.69       8.64     25.37
  54.7      55.0     32.76       8.54     25.44
  59.8      60.1     32.79       8.51     25.47
  69.6      70.0     32.94       8.36     25.61
  79.8      80.3     32.96       8.35     25.63
  89.6      90.1     32.98       8.33     25.64
  99.8     100.4     32.99       8.32     25.65
 109.3     110.0     32.99       8.31     25.66
 119.3     120.0     32.87       8.42     25.54
 126.2     127.0     32.88       8.42     25.55
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COASTAL ZONE OCEANOGRAPHY
CRUISE NO: 12A ALBERNI PROGRAM
LAT N 48 57.02
DATE 25/ 7/80
TIME (PST) 1346

TAPE: U01166 -217
LONG W 125 1.30
PASS NO. 0
STN: A7

DEPTH	PRESS	SAL	TEMP	SIGMA-T	OXYGEN
.0	.0	28.77	15.21	21.14	6.95
2.0	2.0	28.77	14.52	21.28	
5.0	5.0	31.63	12.69	23.85	
10.0	10.0	31.99	10.18	24.58	
14.9	15.0	32.09	9.79	24.72	
19.9	20.0	32.11	9.67	24.76	
24.9	25.0	32.17	9.56	24.82	
29.9	30.0	32.24	9.47	24.89	
35.8	36.0	32.30	9.30	24.96	
40.8	41.0	32.50	8.99	25.17	
44.8	45.0	32.61	8.84	25.28	
48.8	49.0	32.72	8.66	25.39	2.74
59.7	60.0	32.76	8.61	25.43	
68.6	69.0	32.78	8.54	25.46	
75.6	76.0	32.80	8.53	25.47	2.43
80.6	81.0	32.80	8.51	25.48	
90.5	91.0	32.84	8.47	25.51	
100.4	101.0	32.86	8.45	25.53	2.62
112.3	113.0	32.88	8.42	25.55	
117.3	118.0	32.89	8.42	25.56	
126.3	127.0	32.90	8.43	25.57	2.56
129.2	130.0	32.92	8.43	25.58	
138.2	139.0	32.93	8.44	25.59	
149.1	150.0	32.94	8.43	25.60	2.52
160.0	161.0	32.95	8.41	25.61	
167.0	168.0	32.97	8.41	25.62	
179.9	181.0	32.98	8.41	25.63	
190.8	192.0	32.98	8.40	25.63	
195.8	197.0	32.98	8.40	25.63	

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COASTAL ZONE OCEANOGRAPHY

CRUISE NO:  12A ALBERNI PROGRAM          TAPE: U01166   -218
LAT  N 48 58.20                          LONG W 125  7.80
DATE 25/ 7/80                            PASS NO.  0
TIME (PST) 1526                          STN: A12

 DEPTH      PRESS      SAL       TEMP     SIGMA-T   OXYGEN
    .0         .0     28.77     16.34     20.89     6.90
   2.0        2.0     31.45     13.35     23.58
   5.0        5.0     31.76     11.30     24.21
  10.0       10.0     32.02      9.87     24.65
  14.9       15.0     32.10      9.61     24.76
  20.9       21.0     32.21      9.43     24.87
  24.9       25.0     32.29      9.39     24.94
  29.9       30.0     32.35      9.24     25.01
  35.8       36.0     32.40      9.19     25.06
  39.8       40.0     32.49      9.05     25.15
  45.8       46.0     32.66      8.78     25.33
  49.7       50.0     32.69      8.69     25.36     2.81
  60.7       61.0     32.85      8.50     25.52
  70.6       71.0     32.91      8.43     25.57
  75.6       76.0     32.97      8.41     25.62     2.21
  78.6       79.0     32.98      8.39     25.64
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COASTAL ZONE OCEANOGRAPHY
CRUISE NO:  12A ALBERNI PROGRAM            TAPE: U01166   -219
LAT  N 48 54.15                            LONG W 125 12.95
DATE 25/ 7/80                              PASS NO.  0
TIME (PST) 1618                            STN: A13

 DEPTH      PRESS      SAL       TEMP     SIGMA-T
    .0         .0     28.76     18.37     20.42
   2.0        2.0     29.66     15.12     21.84
   5.0        5.0     31.91     11.55     24.28
  10.0       10.0     31.91     11.19     24.34
  14.9       15.0     31.97     10.44     24.52
  20.9       21.0     32.17      9.96     24.75
  25.9       26.0     32.24      9.60     24.87
  29.9       30.0     32.30      9.39     24.95
  35.8       36.0     32.38      9.21     25.04
  39.8       40.0     32.42      9.11     25.09
  45.8       46.0     32.52      8.97     25.19
  49.7       50.0     32.60      8.81     25.27
  59.7       60.0     32.81      8.54     25.48
  69.6       70.0     32.96      8.42     25.62
  79.6       80.0     32.99      8.37     25.65
  83.5       84.0     33.02      8.35     25.67

CRUISE NO:  12A ALBERNI PROGRAM            TAPE: U01166   -220
LAT  N 48 50.05                            LONG W 125 15.80
DATE 25/ 7/80                              PASS NO.  0
TIME (PST) 1714                            STN: A14

 DEPTH      PRESS      SAL       TEMP     SIGMA-T   OXYGEN
    .0         .0     30.68     14.07     22.84     6.24
   2.0        2.0     30.68     13.60     22.94
   6.0        6.0     31.88     10.92     24.37
  10.0       10.0     32.05     10.23     24.62
  15.9       16.0     32.19      9.62     24.83
  19.9       20.0     32.20      9.55     24.84
  24.9       25.0     32.28      9.35     24.94
  30.8       31.0     32.34      9.22     25.01
  35.8       36.0     32.41      9.13     25.08
  40.8       41.0     32.44      9.08     25.11
  45.8       46.0     32.45      9.06     25.12
  49.7       50.0     32.55      8.92     25.22     3.46
  59.7       60.0     32.67      8.76     25.34
  68.6       69.0     32.93      8.46     25.59
  74.6       75.0     32.94      8.43     25.60     2.74
  79.6       80.0     33.01      8.33     25.67
  90.5       91.0     33.12      8.20     25.77
  99.4      100.0     33.17      8.13     25.82
```

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COASTAL ZONE OCEANOGRAPHY
CRUISE NO:  12A ALBERNI PROGRAM          TAPE: U01166   -221
LAT  N 48 48.20                          LONG W 125 14.40
DATE 25/ 7/80                            PASS NO.  0
TIME (PST) 1743                          STN: A10

 DEPTH      PRESS       SAL       TEMP    SIGMA-T
    .0         .0     30.20      14.02     22.48
   2.0        2.0     31.14      12.43     23.52
   5.0        5.0     31.91      10.77     24.42
  11.0       11.0     31.97      10.34     24.54
  14.9       15.0     32.22       9.42     24.88
  19.9       20.0     32.27       9.40     24.92
  24.9       25.0     32.32       9.32     24.98
  29.8       30.0     32.38       9.20     25.04
  34.8       35.0     32.45       9.02     25.12
  53.7       54.0     32.60       8.89     25.26
```

```
CRUISE NO:  12A ALBERNI PROGRAM          TAPE: U01166   -222
LAT  N 48 51.50                          LONG W 125  8.10
DATE 25/ 7/80                            PASS NO.  0
TIME (PST) 1830                          STN: A9

 DEPTH      PRESS       SAL       TEMP    SIGMA-T   OXYGEN
    .0         .0     28.76      16.34     20.89    7.31
   2.0        2.0     31.07      12.61     23.43
   5.0        5.0     31.72      11.28     24.18
  10.0       10.0     31.95      10.20     24.54
  14.9       15.0     32.11       9.74     24.74
  19.9       20.0     32.21       9.61     24.84
  25.9       26.0     32.25       9.45     24.90
  29.9       30.0     32.30       9.38     24.95
  34.8       35.0     32.38       9.22     25.04
  39.8       40.0     32.43       9.12     25.09
  44.8       45.0     32.50       8.98     25.17
  49.7       50.0     32.57       8.83     25.25   2.77
  60.7       61.0     32.74       8.59     25.42
  70.6       71.0     32.80       8.50     25.48
  76.6       77.0     32.82       8.48     25.50   1.92
  80.5       81.0     32.83       8.47     25.51
  88.5       89.0     32.84       8.46     25.52
 104.4      105.0     32.86       8.44     25.53   2.68
 109.4      110.0     32.89       8.41     25.56
 122.3      123.0     32.90       8.40     25.57
 122.3      123.0     32.90       8.40     25.57
```

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COASTAL ZONE OCEANOGRAPHY
CRUISE NO:   13 ALBERNI PROGRAM                TAPE: U01166   -223
LAT  N 49 12.16                                LONG W 124 49.02
DATE 12/ 8/80                                  PASS NO.  1
TIME (PST) 1236                                STN: A0

 DEPTH      PRESS      SAL      TEMP     SIGMA-T
    .4         .4     10.79     20.35      6.32
   2.0        2.0     11.37     20.06      6.81
   5.0        5.0     21.29     16.00     15.23
  10.1       10.0     31.14     10.33     23.89
  15.0       15.0     31.73      9.75     24.44
  20.0       20.0     31.87      9.61     24.58
  24.9       25.0     31.99      9.51     24.69
  29.9       29.9     32.11      9.41     24.80
  34.9       35.0     32.17      9.36     24.85
  34.9       35.0     32.17      9.36     24.85

CRUISE NO:   13 ALBERNI PROGRAM                TAPE: U01166   -224
LAT  N 49  9.91                                LONG W 124 48.62
DATE 12/ 8/80                                  PASS NO.  3
TIME (PST) 1302                                STN: A1

 DEPTH      PRESS      SAL      TEMP     SIGMA-T   OXYGEN
    .5         .5     16.36     18.90     10.86
   2.0        2.0     16.94     18.61     11.36
   5.1        5.0     21.28     17.24     14.97
  10.0       10.0     30.96     10.52     23.71
  15.1       15.0     31.81      9.71     24.51
  20.0       20.0     31.94      9.59     24.63
  25.0       25.1     32.06      9.47     24.75
  29.9       29.9     32.14      9.39     24.82
  34.8       34.9     32.18      9.35     24.86
  39.9       40.0     32.23      9.30     24.91
  44.9       45.0     32.28      9.25     24.95
  49.9       50.1     32.29      9.23     24.97     2.28
  59.9       60.1     32.31      9.21     24.98
  69.7       70.0     32.33      9.18     25.00
  74.7       75.1     32.33      9.18     25.01     2.58
  79.6       80.0     32.34      9.17     25.01
  89.6       90.0     32.34      9.16     25.01
  99.5      100.0     32.35      9.16     25.02     2.53
 107.6      108.2     32.35      9.15     25.02
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COASTAL ZONE OCEANOGRAPHY
CRUISE NO:   13 ALBERNI PROGRAM          TAPE: U01166   -225
LAT  N 49  7.15                          LONG W 124 48.80
DATE 12/ 8/80                            PASS NO.  5
TIME (PST) 1358                          STN: A2

 DEPTH     PRESS      SAL      TEMP    SIGMA-T   OXYGEN
    .7        .7    18.76     18.42     12.79
   2.0       2.0    19.46     17.98     13.42
   5.0       5.0    21.03     17.22     14.78
  10.1      10.1    31.11     10.71     23.80
  14.9      15.0    31.87      9.81     24.54
  19.9      20.0    31.91      9.74     24.59
  24.9      24.9    31.99      9.63     24.67
  30.0      30.1    32.10      9.50     24.77
  34.9      35.0    32.19      9.37     24.87
  40.0      40.1    32.23      9.31     24.90
  44.9      45.0    32.25      9.29     24.92
  49.8      50.0    32.28      9.25     24.95    2.79
  59.6      59.9    32.31      9.20     24.99
  69.8      70.1    32.32      9.20     25.00
  74.7      75.0    32.33      9.18     25.00    2.68
  79.6      80.0    32.33      9.18     25.00
  89.6      90.0    32.34      9.17     25.01
  99.5     100.0    32.34      9.16     25.01    2.77
 110.5     111.0    32.35      9.16     25.02
 120.4     121.0    32.35      9.16     25.02
 125.3     125.9    32.35      9.15     25.02    2.75
 130.3     131.0    32.36      9.15     25.03
 136.9     137.6    32.36      9.15     25.03
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COASTAL ZONE OCEANOGRAPHY

CRUISE NO:   13 ALBERNI PROGRAM          TAPE: U01166   -226
LAT  N 49  5.50                          LONG W 124 49.50
DATE 12/ 8/80                            PASS NO.  7
TIME (PST) 1452                          STN: A3

 DEPTH      PRESS      SAL       TEMP    SIGMA-T
    .7         .7     22.06     17.26     15.56
   2.0        2.0     22.12     17.21     15.61
   5.1        5.0     22.25     17.11     15.74
  10.0        9.9     29.09     12.77     21.86
  14.9       14.9     31.70     10.14     24.35
  20.0       20.0     31.85      9.89     24.51
  24.9       24.9     31.96      9.72     24.63
  29.9       30.0     32.18      9.40     24.85
  34.9       35.0     32.28      9.25     24.96
  39.8       39.9     32.29      9.25     24.96
  44.8       45.0     32.34      9.17     25.01
  49.8       50.0     32.39      9.09     25.07
  59.8       60.0     32.56      8.85     25.23
  69.6       69.9     32.62      8.76     25.29
  79.6       79.9     32.66      8.70     25.33
  89.6       90.0     32.68      8.67     25.35
 100.4      100.9     32.68      8.66     25.36
 100.4      100.9     32.68      8.66     25.36
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COASTAL ZONE OCEANOGRAPHY
CRUISE NO: 13 ALBERNI PROGRAM
LAT N 49 2.70
DATE 12/ 8/80
TIME (PST) 1516

TAPE: U01166 -227
LONG W 124 51.11
PASS NO. 9
STN: A4

DEPTH	PRESS	SAL	TEMP	SIGMA-T
5.0	5.0	24.24	16.02	17.49
10.0	10.0	29.81	12.47	22.48
15.0	15.0	31.75	10.47	24.34
20.1	20.1	31.96	10.07	24.57
25.0	25.1	32.03	9.66	24.69
29.8	29.9	32.12	9.46	24.79
34.9	35.0	32.24	9.33	24.91
39.9	40.1	32.29	9.24	24.96
44.9	45.1	32.35	9.15	25.03
49.8	50.0	32.43	9.04	25.10
59.8	60.1	32.68	8.69	25.35
69.8	70.1	32.77	8.47	25.45
79.6	80.0	32.81	8.40	25.49
90.5	90.9	32.84	8.37	25.53
100.5	101.0	32.87	8.36	25.55
110.5	111.1	32.88	8.37	25.55
120.3	121.0	32.89	8.37	25.56
130.4	131.1	32.89	8.37	25.57
140.2	141.0	32.90	8.37	25.57
150.2	151.0	32.91	8.37	25.58
160.1	161.0	32.91	8.36	25.58
170.1	171.1	32.92	8.36	25.59
179.9	181.0	32.93	8.35	25.60
188.5	189.6	32.93	8.35	25.60

COASTAL ZONE OCEANOGRAPHY

CRUISE NO: 13 ALBERNI PROGRAM TAPE: U01166 -228
LAT N 48 59.58 LONG W 124 53.38
DATE 12/ 8/80 PASS NO. 11
TIME (PST) 1606 STN: A5

DEPTH	PRESS	SAL	TEMP	SIGMA-T	OXYGEN
4.9	4.9	31.13	12.33	23.53	
9.9	9.9	31.85	10.72	24.37	
15.0	15.0	31.97	10.23	24.55	
19.9	20.0	32.02	10.02	24.62	
25.0	25.1	32.10	9.55	24.76	
29.9	30.0	32.19	9.34	24.87	
34.8	34.9	32.26	9.24	24.94	
39.8	40.0	32.37	9.11	25.04	
44.8	45.0	32.46	8.99	25.13	
49.7	49.9	32.56	8.85	25.23	2.75
59.8	60.1	32.76	8.50	25.44	
69.6	70.0	32.80	8.44	25.48	
74.6	75.0	32.81	8.42	25.49	2.43
80.5	80.9	32.82	8.41	25.50	
90.5	91.0	32.85	8.37	25.54	
100.4	101.0	32.87	8.37	25.55	2.48
110.4	111.0	32.89	8.37	25.56	
120.3	121.0	32.89	8.37	25.57	
125.2	125.9	32.89	8.37	25.57	2.43
130.2	131.0	32.89	8.37	25.57	
140.1	140.9	32.91	8.36	25.58	
150.0	150.9	32.92	8.36	25.59	2.43
160.0	161.0	32.92	8.35	25.59	
170.0	171.0	32.93	8.34	25.60	
179.8	180.9	32.94	8.33	25.61	
189.8	191.0	32.94	8.33	25.61	
199.8	201.0	32.94	8.33	25.61	2.35
224.7	226.1	32.96	8.31	25.63	
250.3	251.9	32.96	8.31	25.63	2.37
275.3	277.1	32.96	8.31	25.63	
300.0	302.0	32.97	8.31	25.63	2.33
324.8	327.0	32.97	8.31	25.63	
339.7	342.0	32.97	8.31	25.64	2.32
346.8	349.1	32.97	8.31	25.64	

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COASTAL ZONE OCEANOGRAPHY
CRUISE NO:    13 ALBERNI PROGRAM           TAPE: U01166   -229
LAT  N 48 58.78                            LONG W 124 57.80
DATE 12/ 8/80                              PASS NO. 13
TIME (PST) 1709                            STN: A6

 DEPTH      PRESS       SAL       TEMP    SIGMA-T
   2.0        2.0     27.38      15.70     19.96
   5.0        5.0     30.26      13.23     22.68
  10.0       10.1     31.82      11.02     24.30
  15.0       15.0     31.93      10.59     24.46
  19.9       20.0     32.01      10.29     24.57
  24.9       25.0     32.04      10.04     24.64
  29.8       29.9     32.13       9.64     24.77
  34.9       35.1     32.28       9.24     24.95
  39.8       40.0     32.37       9.12     25.04
  44.8       45.0     32.44       9.00     25.12
  49.7       50.0     32.65       8.71     25.32
  59.7       60.0     32.72       8.58     25.40
  69.6       70.0     32.78       8.47     25.47
  79.5       79.9     32.82       8.41     25.50
  89.5       90.0     32.84       8.39     25.52
 100.4      101.0     32.86       8.37     25.54
 110.4      111.1     32.88       8.37     25.56
 120.4      121.1     32.89       8.36     25.57
 130.3      131.1     32.90       8.36     25.58
 140.2      141.1     32.93       8.33     25.60
 150.1      151.0     32.98       8.28     25.65
 160.0      161.0     33.03       8.23     25.70
 170.0      171.0     33.04       8.23     25.70
 179.9      181.0     33.04       8.23     25.70
 189.8      191.0     33.05       8.22     25.71
 191.8      193.0     33.05       8.22     25.71
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COASTAL ZONE OCEANOGRAPHY

CRUISE NO:   13 ALBERNI PROGRAM              TAPE: U01166   -230
LAT  N 48 57.02                              LONG W 125  1.30
DATE 12/ 8/80                                PASS NO. 15
TIME (PST) 1743                              STN: A7

 DEPTH      PRESS       SAL       TEMP    SIGMA-T   OXYGEN
    .1         .1      28.15     16.87     20.29
   1.9        1.9      28.17     16.84     20.32
   5.0        5.0      28.41     16.63     20.55
  10.1       10.1      31.93     10.95     24.40
  14.9       15.0      31.97     10.52     24.50
  20.0       20.1      32.03     10.22     24.60
  25.0       25.1      32.07     10.02     24.66
  29.8       29.9      32.18      9.61     24.81
  35.0       35.1      32.26      9.36     24.92
  39.7       39.9      32.37      9.14     25.04
  44.8       45.1      32.56      8.83     25.23
  49.8       50.0      32.66      8.67     25.34     2.44
  59.6       59.9      32.77      8.50     25.45
  69.6       70.0      32.81      8.45     25.49
  74.7       75.1      32.82      8.44     25.50     2.24
  79.6       80.0      32.83      8.42     25.51
  90.5       91.0      32.85      8.39     25.53
 100.4      101.0      32.86      8.38     25.54     2.43
 110.3      111.0      32.89      8.36     25.57
 120.3      121.0      32.91      8.35     25.58
 125.3      126.1      32.92      8.34     25.59     2.33
 130.2      131.0      32.93      8.33     25.60
 140.3      141.1      32.97      8.29     25.64
 150.1      151.0      32.99      8.27     25.66     2.27
 160.1      161.0      33.00      8.26     25.67
 169.9      170.9      33.02      8.25     25.69
 179.9      181.0      33.03      8.24     25.69
 189.9      191.1      33.04      8.23     25.70
 199.8      201.0      33.04      8.23     25.70     2.13
 219.6      221.0      33.04      8.24     25.70
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COASTAL ZONE OCEANOGRAPHY
CRUISE NO:    13 ALBERNI PROGRAM          TAPE: U01166   -231
LAT  N 48 57.72                           LONG W 125  4.48
DATE 12/ 8/80                             PASS NO. 17
TIME (PST) 1824                           STN: A11

  DEPTH      PRESS       SAL       TEMP    SIGMA-T
    5.0        5.1     31.69      12.02     24.01
   10.0       10.0     31.88      11.05     24.34
   14.9       15.0     31.96      10.65     24.47
   19.9       20.0     32.07      10.11     24.65
   24.9       25.0     32.14       9.84     24.74
   29.9       30.0     32.22       9.51     24.86
   34.9       35.1     32.30       9.31     24.96
   39.8       40.0     32.37       9.16     25.03
   44.9       45.1     32.52       8.92     25.19
   49.8       50.0     32.62       8.74     25.30
   59.7       60.0     32.76       8.53     25.44
   69.7       70.1     32.90       8.35     25.57
   79.6       80.1     33.00       8.28     25.66
   89.5       90.0     33.04       8.23     25.70
  100.4      101.0     33.04       8.23     25.71
  110.3      110.9     33.05       8.22     25.71
  120.2      120.9     33.06       8.22     25.72
  130.2      131.0     33.06       8.21     25.73
  140.1      140.9     33.07       8.20     25.73
  148.2      149.1     33.09       8.19     25.75

CRUISE NO:    13 ALBERNI PROGRAM          TAPE: U01166   -232
LAT  N 48 58.20                           LONG W 125  7.80
DATE 12/ 8/80                             PASS NO. 19
TIME (PST) 1855                           STN: A12

  DEPTH      PRESS       SAL       TEMP    SIGMA-T    OXYGEN
    2.0        2.0     29.19      17.40     20.97
    5.0        5.0     29.36      16.95     21.20
   10.0       10.0     31.78      11.62     24.16
   15.0       15.1     31.96      10.73     24.46
   20.0       20.0     32.01      10.47     24.54
   24.9       25.0     32.05      10.27     24.61
   29.8       30.0     32.13       9.80     24.75
   34.9       35.1     32.16       9.57     24.81
   39.8       40.0     32.32       9.26     24.98
   44.8       45.0     32.41       9.16     25.06
   49.7       50.0     32.54       8.92     25.21     2.70
   59.8       60.1     32.75       8.57     25.43
   69.6       70.0     32.92       8.35     25.59
   74.6       75.0     32.98       8.30     25.64     2.24
   79.6       80.0     33.00       8.28     25.66
   86.4       86.9     33.08       8.19     25.74
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COASTAL ZONE OCEANOGRAPHY
CRUISE NO: 13 ALBERNI PROGRAM
LAT N 48 54.15
DATE 12/ 8/80
TIME (PST) 1943

TAPE: U01166 -233
LONG W 125 12.95
PASS NO. 21
STN: A13

DEPTH	PRESS	SAL	TEMP	SIGMA-T
2.0	2.0	31.13	13.18	23.36
5.0	5.0	31.19	13.12	23.42
10.0	10.0	31.57	11.99	23.93
15.0	15.1	31.84	10.94	24.33
19.8	19.9	31.96	10.57	24.49
24.8	24.9	32.02	10.38	24.57
29.8	30.0	32.13	9.93	24.72
34.8	35.0	32.19	9.69	24.81
39.8	40.0	32.24	9.49	24.88
44.9	45.1	32.34	9.31	24.99
49.7	50.0	32.40	9.17	25.06
59.7	60.0	32.59	8.82	25.26
69.6	70.0	32.86	8.43	25.53
79.5	80.0	33.05	8.22	25.71
90.2	90.7	33.13	8.08	25.79
90.2	90.7	33.13	8.08	25.79

CRUISE NO: 13 ALBERNI PROGRAM
LAT N 48 50.05
DATE 12/ 8/80
TIME (PST) 2015

TAPE: U01166 -234
LONG W 125 15.80
PASS NO. 23
STN: A14

DEPTH	PRESS	SAL	TEMP	SIGMA-T	OXYGEN
2.3	2.3	31.31	13.43	23.45	
5.0	5.0	31.46	12.37	23.78	
10.0	10.0	31.60	11.28	24.09	
15.0	15.1	31.63	11.25	24.11	
20.0	20.0	31.79	10.84	24.31	
24.8	25.0	31.93	10.45	24.49	
30.0	30.1	32.08	10.05	24.67	
34.7	34.9	32.11	9.98	24.70	
39.7	39.9	32.23	9.53	24.87	
44.8	45.0	32.34	9.36	24.98	
49.7	50.0	32.43	9.15	25.09	3.35
59.6	60.0	32.57	8.87	25.24	
69.6	70.0	32.94	8.35	25.61	
74.6	75.0	32.99	8.29	25.65	2.25
79.6	80.0	33.01	8.26	25.68	
89.5	90.0	33.11	8.09	25.78	
89.5	90.0	33.11	8.09	25.78	

COASTAL ZONE OCEANOGRAPHY
CRUISE NO: 13 ALBERNI PROGRAM TAPE: U01166 -235
LAT N 48 48.20 LONG W 125 14.40
DATE 12/ 8/80 PASS NO. 25
TIME (PST) 2051 STN: A10

DEPTH	PRESS	SAL	TEMP	SIGMA-T
4.9	4.9	31.50	11.88	23.90
10.0	10.1	31.56	11.43	24.03
15.0	15.1	31.72	10.78	24.26
19.9	20.0	31.91	10.38	24.48
24.9	25.0	32.04	10.04	24.64
29.9	30.0	32.17	9.62	24.81
34.9	35.1	32.24	9.48	24.89
37.5	37.7	32.41	9.20	25.06

CRUISE NO: 13 ALBERNI PROGRAM TAPE: U01166 -236
LAT N 48 51.50 LONG W 125 8.10
DATE 12/ 8/80 PASS NO. 27
TIME (PST) 2133 STN: A9

DEPTH	PRESS	SAL	TEMP	SIGMA-T	OXYGEN
2.0	2.0	29.84	14.59	22.09	
5.1	5.1	31.56	11.76	23.97	
9.9	10.0	31.67	11.32	24.13	
14.9	15.0	31.86	10.78	24.37	
19.9	20.0	31.90	10.62	24.43	
24.9	25.0	31.99	10.35	24.54	
29.9	30.0	32.17	9.65	24.80	
34.9	35.0	32.33	9.23	24.99	
39.8	40.0	32.37	9.15	25.04	
44.7	45.0	32.44	9.00	25.12	
49.7	50.0	32.60	8.78	25.27	2.23
59.7	60.0	32.76	8.53	25.44	
69.6	70.0	32.80	8.47	25.48	
74.5	74.9	32.81	8.46	25.49	1.91
79.6	80.0	32.82	8.45	25.50	
89.6	90.1	32.84	8.43	25.51	
100.5	101.0	32.85	8.43	25.52	1.95
110.4	111.0	32.88	8.40	25.55	
120.3	121.0	32.89	8.39	25.56	
125.3	126.1	32.90	8.38	25.57	2.09
130.3	131.0	32.90	8.38	25.57	
136.2	137.0	32.91	8.37	25.58	

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COASTAL ZONE OCEANOGRAPHY
CRUISE NO:   13 ALBERNI PROGRAM               TAPE: U01166   -237
LAT  N 48 53.78                               LONG w 125  3.05
DATE 12/ 8/80                                 PASS NO. 29
TIME (PST) 2219                               STN: A8

 DEPTH     PRESS      SAL       TEMP    SIGMA-T
   5.0       5.0     29.00     15.98     21.14
  10.0      10.1     31.67     11.43     24.11
  15.0      15.0     31.83     10.94     24.32
  19.9      19.9     31.91     10.68     24.43
  24.9      25.0     32.01     10.25     24.58
  29.8      30.0     32.10      9.90     24.70
  34.9      35.0     32.15      9.67     24.79
  39.9      40.0     32.31      9.28     24.97
  44.7      44.9     32.38      9.14     25.05
  49.7      49.9     32.51      8.90     25.19
  59.8      60.1     32.66      8.66     25.34
  69.7      70.1     32.81      8.45     25.49
  79.5      80.0     32.84      8.42     25.52
  89.5      90.0     32.84      8.42     25.52
 100.5     101.1     32.86      8.41     25.54
 110.4     111.0     32.88      8.38     25.56
 120.4     121.1     32.88      8.38     25.56
 130.2     131.0     32.90      8.37     25.57
 140.2     141.0     32.93      8.35     25.60
 150.1     151.0     32.94      8.33     25.61
 160.0     160.9     32.95      8.33     25.61
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COASTAL ZONE OCEANOGRAPHY

CRUISE NO: 14 ALBERNI PROGRAM
LAT N 48 57.02
DATE 19/ 9/80
TIME (PST) 1853

TAPE: U01166 -238
LONG W 125 1.30
PASS NO. 1
STN: A7

DEPTH	PRESS	SAL	TEMP	SIGMA-T
5.1	5.1	28.77	14.08	21.37
10.0	10.0	30.80	11.77	23.37
15.1	15.1	31.86	10.67	24.39
20.0	20.1	31.93	10.46	24.48
24.9	25.0	32.04	10.17	24.62
30.0	30.1	32.14	9.89	24.74
34.9	35.1	32.17	9.80	24.78
39.8	40.0	32.24	9.63	24.86
44.7	44.9	32.30	9.46	24.94
49.8	50.0	32.38	9.30	25.02
59.6	59.9	32.68	8.74	25.35
69.8	70.1	32.81	8.48	25.49
80.5	80.9	32.88	8.40	25.55
90.5	91.0	32.92	8.36	25.59
100.4	101.0	32.97	8.30	25.64
110.4	111.0	32.98	8.28	25.65
120.3	121.0	33.00	8.26	25.66
130.2	130.9	33.01	8.26	25.67
140.2	141.0	33.01	8.25	25.68
149.9	150.8	33.03	8.24	25.69
160.1	161.0	33.04	8.24	25.70
170.0	171.0	33.04	8.23	25.71
179.8	180.9	33.04	8.23	25.71
189.9	191.0	33.05	8.23	25.71
199.8	201.0	33.05	8.23	25.71
207.7	209.0	33.05	8.23	25.71

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COASTAL ZONE OCEANOGRAPHY
CRUISE NO:    14 ALBERNI PROGRAM             TAPE: U01166    -239
LAT  N 48 53.78                              LONG W 125  3.05
DATE 19/ 9/80                                PASS NO.  3
TIME (PST) 1937                              STN: A8

 DEPTH      PRESS      SAL       TEMP     SIGMA-T
   2.2        2.2     30.15     12.54     22.73
   4.9        4.9     30.32     12.43     22.88
  10.0       10.1     31.22     11.62     23.73
  15.0       15.0     31.96     10.44     24.51
  19.9       20.0     32.01     10.29     24.57
  24.9       25.0     32.05     10.15     24.63
  29.8       29.9     32.10      9.97     24.70
  34.9       35.0     32.16      9.81     24.77
  39.8       40.0     32.23      9.62     24.86
  44.8       45.0     32.30      9.47     24.93
  49.7       49.9     32.40      9.24     25.05
  59.6       59.9     32.69      8.71     25.36
  69.6       70.0     32.82      8.50     25.49
  79.6       80.0     32.90      8.38     25.57
  89.6       90.1     32.91      8.37     25.58
 100.4      101.0     32.96      8.31     25.63
 110.3      111.0     32.97      8.29     25.64
 120.3      121.0     32.99      8.27     25.66
 130.2      131.0     33.00      8.26     25.67
 140.2      141.0     33.01      8.25     25.68
 150.1      151.0     33.02      8.24     25.68
 160.1      161.1     33.02      8.24     25.69
 164.9      165.9     33.02      8.24     25.69
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COASTAL ZONE OCEANOGRAPHY

CRUISE NO:   14 ALBERNI PROGRAM          TAPE: U01166    -240
LAT  N 48 51.50                          LONG W 125  8.10
DATE 19/ 9/80                            PASS NO.  5
TIME (PST) 2028                          STN: A9

 DEPTH     PRESS      SAL      TEMP    SIGMA-T   OXYGEN
   5.3       5.3     31.51     11.24    24.02
  10.0      10.1     31.52     11.22    24.03
  14.9      15.0     31.78     10.75    24.32
  20.0      20.1     31.87     10.56    24.42
  24.9      25.0     32.03     10.15    24.61
  29.9      30.0     32.08     10.03    24.67
  34.9      35.1     32.15      9.89    24.75
  39.9      40.1     32.19      9.78    24.80
  44.8      45.0     32.25      9.63    24.87
  49.7      50.0     32.33      9.38    24.97    2.79
  59.7      60.0     32.52      8.99    25.18
  69.7      70.1     32.69      8.73    25.35
  74.6      75.0     32.79      8.55    25.46    1.56
  79.5      80.0     32.82      8.50    25.49
  89.6      90.1     32.90      8.39    25.57
 100.4     101.0     32.94      8.33    25.61    1.14
 110.6     111.2     32.96      8.31    25.63
 120.4     121.1     32.98      8.29    25.65
 125.5     126.2     32.98      8.28    25.65
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COASTAL ZONE OCEANOGRAPHY
CRUISE NO:    14 ALBERNI PROGRAM          TAPE: U01166    -241
LAT   N 48 48.20                          LONG W 125 14.40
DATE 19/ 9/80                             PASS NO.  7
TIME (PST) 2125                           STN: A10

 DEPTH      PRESS       SAL       TEMP    SIGMA-T
   2.9        3.0     31.73      10.62     24.30
   5.0        5.0     31.73      10.64     24.29
   9.9        9.9     31.82      10.45     24.40
  14.8       14.9     31.87      10.39     24.44
  19.9       20.0     31.90      10.31     24.48
  24.8       25.0     31.91      10.22     24.51
  29.9       30.0     31.96       9.99     24.59
  34.8       35.0     32.06       9.92     24.68
  38.5       38.7     32.09       9.90     24.70

CRUISE NO:    14 ALBERNI PROGRAM          TAPE: U01166    -242
LAT   N 48 50.05                          LONG W 125 15.80
DATE 19/ 9/80                             PASS NO.  9
TIME (PST) 2148                           STN: A14

 DEPTH      PRESS       SAL       TEMP    SIGMA-T    OXYGEN
   2.2        2.2     31.18      12.14     23.60
   4.9        4.9     31.18      12.14     23.60
   9.9       10.0     31.68      11.22     24.16
  15.0       15.1     31.96      10.43     24.51
  19.9       20.0     32.00      10.06     24.61
  24.7       24.8     32.09       9.87     24.71
  29.8       29.9     32.20       9.65     24.83
  34.9       35.1     32.20       9.64     24.83
  39.9       40.1     32.27       9.51     24.91
  44.8       45.0     32.30       9.42     24.94
  49.7       50.0     32.35       9.38     24.99     3.20
  59.7       60.0     32.55       8.98     25.21
  69.6       69.9     32.78       8.60     25.44
  74.6       75.0     32.91       8.42     25.57     1.82
  80.5       80.9     32.98       8.34     25.64
  89.4       90.0     33.07       8.24     25.72
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COASTAL ZONE OCEANOGRAPHY
CRUISE NO:    14 ALBERNI PROGRAM           TAPE: U01166    -243
LAT  N 48 54.15                            LONG W 125 12.95
DATE 19/ 9/80                              PASS NO. 11
TIME (PST) 2033                            STN: A13

 DEPTH       PRESS       SAL        TEMP    SIGMA-T
   4.9         4.9      31.18      11.93     23.64
  10.1        10.1      31.18      11.92     23.64
  14.8        14.8      31.82      10.70     24.36
  19.9        20.0      31.97      10.34     24.54
  24.5        24.6      32.01      10.15     24.60
  29.8        29.9      32.08      10.01     24.68
  34.9        35.0      32.16       9.79     24.78
  39.7        39.9      32.28       9.60     24.90
  44.8        45.0      32.36       9.45     24.99
  49.8        50.0      32.40       9.37     25.03
  59.7        60.0      32.52       9.13     25.15
  69.7        70.1      32.72       8.70     25.38
  79.5        80.0      32.92       8.41     25.58
  89.7        90.2      33.04       8.25     25.70
  93.4        93.9      33.06       8.24     25.72

CRUISE NO:    14 ALBERNI PROGRAM           TAPE: U01166    -244
LAT  N 48 58.20                            LONG W 125  7.80
DATE 19/ 9/80                              PASS NO. 13
TIME (PST) 2321                            STN: A12

 DEPTH       PRESS       SAL        TEMP    SIGMA-T    OXYGEN
   2.0         2.0      30.20      13.06     22.67
   4.8         4.8      30.75      12.53     23.19
   9.9         9.9      30.86      12.33     23.32
  14.9        15.0      31.01      12.08     23.48
  20.0        20.1      31.86      10.53     24.41
  25.0        25.1      31.95      10.29     24.53
  29.8        29.9      32.02      10.14     24.60
  34.8        34.9      32.07      10.02     24.66
  39.8        40.0      32.16       9.76     24.78
  44.9        45.1      32.26       9.53     24.89
  49.6        49.8      32.30       9.44     24.94     3.40
  59.7        60.0      32.50       9.08     25.15
  69.7        70.0      32.76       8.63     25.42
  74.6        75.0      32.88       8.43     25.55     1.81
  79.5        80.0      32.91       8.39     25.57
  88.2        88.7      32.96       8.32     25.62
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COASTAL ZONE OCEANOGRAPHY
CRUISE NO: 14 ALBERNI PROGRAM
LAT N 48 57.72
DATE 19/ 9/80
TIME (PST) 2359

TAPE: U01166 -245
LONG W 125 4.48
PASS NO. 15
STN: A11

DEPTH	PRESS	SAL	TEMP	SIGMA-T
1.7	1.7	29.82	13.42	22.31
4.9	4.9	29.82	13.42	22.31
10.0	10.0	30.57	12.65	23.03
14.9	15.0	31.75	10.81	24.28
20.0	20.0	31.89	10.51	24.44
24.9	25.0	31.93	10.40	24.50
29.9	30.0	32.01	10.18	24.59
34.9	35.0	32.13	9.89	24.73
39.8	40.0	32.22	9.66	24.84
44.8	45.0	32.28	9.52	24.91
49.7	50.0	32.31	9.45	24.94
59.8	60.1	32.45	9.16	25.10
69.7	70.1	32.74	8.63	25.40
79.5	79.9	32.82	8.49	25.49
89.5	90.0	32.89	8.38	25.57
100.5	101.0	32.92	8.35	25.59
110.3	110.9	32.93	8.34	25.60
120.4	121.1	32.94	8.33	25.61
124.0	124.7	32.94	8.33	25.61

COASTAL ZONE OCEANOGRAPHY

CRUISE NO: 14 ALBERNI PROGRAM TAPE: U01166 -246
LAT N 48 57.02 LONG W 125 1.30
DATE 20/ 9/80 PASS NO. 17
TIME (PST) 0034 STN: A7

DEPTH	PRESS	SAL	TEMP	SIGMA-T	OXYGEN
.2	.2	29.90	12.64	22.52	
2.6	2.6	30.27	12.66	22.80	
4.9	4.9	30.33	12.51	22.88	
10.0	10.1	31.84	10.72	24.36	
15.0	15.0	31.92	10.50	24.47	
20.0	20.1	31.97	10.35	24.53	
24.9	25.0	32.03	10.18	24.61	4.02
29.9	30.0	32.10	10.00	24.69	
34.8	35.0	32.15	9.86	24.75	
39.7	39.9	32.21	9.67	24.83	
44.8	45.0	32.28	9.50	24.91	
49.8	50.0	32.31	9.42	24.95	3.05
59.8	60.1	32.49	9.06	25.15	
69.6	70.0	32.78	8.53	25.46	
74.5	74.9	32.84	8.44	25.51	2.15
79.7	80.1	32.89	8.38	25.56	
89.5	90.0	32.92	8.34	25.60	
100.4	101.0	32.95	8.31	25.62	2.02
110.3	111.0	32.97	8.29	25.64	
120.4	121.1	32.98	8.27	25.65	
125.4	126.1	33.00	8.26	25.66	1.92
130.1	130.9	32.99	8.26	25.66	
140.1	140.9	33.00	8.26	25.67	
150.0	150.9	33.02	8.24	25.69	
160.0	161.0	33.03	8.24	25.70	
170.0	171.1	33.04	8.23	25.70	
175.0	176.1	33.04	8.23	25.70	1.60
179.9	181.0	33.04	8.23	25.71	
189.7	190.9	33.05	8.23	25.71	
199.7	201.0	33.05	8.23	25.71	
224.6	226.0	33.05	8.23	25.71	
243.3	244.9	33.05	8.23	25.71	

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COASTAL ZONE OCEANOGRAPHY
CRUISE NO:    14 ALBERNI PROGRAM                          TAPE: U01166    -247
LAT  N 48 58.78                                           LONG W 124 57.80
DATE 20/ 9/80                                             PASS NO. 19
TIME (PST) 0132                                           STN: A6

 DEPTH      PRESS       SAL       TEMP     SIGMA-T
   1.7        1.7      28.86      13.43     21.56
   4.9        4.9      29.03      13.32     21.72
  10.0       10.0      29.58      12.95     22.21
  15.0       15.0      31.89      10.63     24.42
  20.0       20.1      31.97      10.39     24.52
  24.8       24.9      32.07      10.08     24.66
  29.8       30.0      32.12       9.91     24.72
  34.9       35.1      32.17       9.74     24.79
  39.9       40.0      32.23       9.58     24.86
  45.0       45.2      32.30       9.40     24.94
  49.8       50.0      32.38       9.25     25.03
  59.8       60.0      32.59       8.86     25.26
  69.7       70.1      32.81       8.48     25.48
  79.6       80.0      32.86       8.40     25.54
  90.4       90.9      32.89       8.37     25.56
 100.4      101.0      32.95       8.31     25.62
 110.5      111.1      32.98       8.28     25.65
 120.3      121.0      32.99       8.26     25.66
 130.2      131.0      33.01       8.25     25.67
 140.2      141.0      33.01       8.25     25.68
 150.1      151.0      33.02       8.24     25.68
 160.1      161.1      33.02       8.24     25.69
 164.1      165.0      33.02       8.24     25.69
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COASTAL ZONE OCEANOGRAPHY

CRUISE NO: 14 ALBERNI PROGRAM
LAT N 48 59.58
DATE 20/ 9/80
TIME (PST) 0212

TAPE: U01166 -248
LONG W 124 53.38
PASS NO. 21
STN: A5

DEPTH	PRESS	SAL	TEMP	SIGMA-T	OXYGEN
2.0	2.0	28.60	13.46	21.35	
4.9	4.9	28.74	13.31	21.49	
10.0	10.0	31.66	10.91	24.20	
15.0	15.0	31.92	10.57	24.45	
19.9	20.0	31.97	10.40	24.52	
25.0	25.1	32.04	10.17	24.62	
29.9	30.0	32.08	9.97	24.68	
34.9	35.1	32.16	9.82	24.76	
39.8	40.0	32.20	9.65	24.83	
44.8	45.0	32.24	9.44	24.89	
49.8	50.0	32.33	9.25	25.00	2.73
59.7	60.0	32.47	9.07	25.13	
69.7	70.0	32.79	8.49	25.46	
74.7	75.1	32.81	8.44	25.49	2.42
79.6	80.0	32.83	8.41	25.52	
89.6	90.1	32.88	8.37	25.56	
99.6	100.1	32.93	8.32	25.61	2.10
110.3	110.9	32.95	8.31	25.62	
120.2	120.9	32.98	8.28	25.65	
125.3	126.0	33.00	8.26	25.66	2.00
130.1	130.9	33.00	8.25	25.67	
140.2	141.1	33.01	8.25	25.67	
150.1	151.0	33.02	8.24	25.68	1.85
160.0	161.0	33.02	8.24	25.69	
170.0	171.0	33.02	8.23	25.69	
180.0	181.1	33.02	8.23	25.69	
189.9	191.0	33.02	8.23	25.69	
199.8	201.0	33.02	8.23	25.69	1.86
224.5	225.9	33.03	8.23	25.69	
250.4	252.0	33.03	8.23	25.69	1.75
275.1	276.9	33.03	8.24	25.69	
300.0	302.0	33.03	8.24	25.69	1.76
317.7	319.8	33.03	8.24	25.69	

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COASTAL ZONE OCEANOGRAPHY
CRUISE NO:   14 ALBERNI PROGRAM          TAPE: U01166   -249
LAT  N 49  2.70                          LONG W 124 51.11
DATE 20/ 9/80                            PASS NO. 23
TIME (PST) 0325                          STN: A4

 DEPTH     PRESS      SAL       TEMP   SIGMA-T
   1.9       1.9     28.13     13.03    21.08
   5.0       5.0     28.26     13.02    21.18
  10.0      10.0     28.91     12.18    21.83
  14.9      15.0     30.12     11.49    22.90
  19.9      20.0     31.84     10.43    24.41
  24.9      25.0     31.96     10.27    24.54
  29.8      30.0     32.02      9.98    24.63
  35.0      35.1     32.11      9.69    24.75
  39.8      40.0     32.17      9.53    24.82
  44.8      45.0     32.25      9.42    24.90
  49.7      50.0     32.31      9.28    24.97
  59.8      60.1     32.50      8.94    25.17
  69.7      70.0     32.75      8.52    25.43
  79.5      79.9     32.84      8.38    25.52
  90.5      91.0     32.90      8.35    25.57
  99.5     100.0     32.94      8.32    25.61
 110.4     111.0     32.96      8.29    25.63
 120.3     121.0     32.99      8.27    25.66
 130.3     131.0     32.99      8.26    25.66
 140.2     141.0     33.01      8.25    25.67
 150.1     151.0     33.01      8.24    25.67
 159.9     160.8     33.01      8.24    25.68
 170.1     171.1     33.02      8.23    25.68
 179.9     181.0     33.02      8.23    25.69
 189.9     191.0     33.02      8.23    25.69
 199.8     201.0     33.02      8.23    25.69
 224.6     226.0     33.03      8.23    25.69
 250.4     252.0     33.03      8.23    25.69
 271.3     273.0     33.03      8.23    25.69
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COASTAL ZONE OCEANOGRAPHY

CRUISE NO: 14 ALBERNI PROGRAM TAPE: U01166 -250
LAT N 49 5.50 LONG W 124 49.50
DATE 20/ 9/80 PASS NO. 25
TIME (PST) 0412 STN: A3

DEPTH	PRESS	SAL	TEMP	SIGMA-T
1.9	1.9	25.61	12.99	19.13
5.0	5.0	25.59	13.00	19.12
10.0	10.0	28.50	12.28	21.50
15.0	15.0	30.99	10.70	23.71
19.9	20.0	31.76	10.20	24.39
25.0	25.0	31.91	10.02	24.54
29.9	30.0	32.11	9.75	24.74
34.9	35.0	32.21	9.55	24.85
39.8	40.0	32.26	9.44	24.91
44.8	45.0	32.29	9.37	24.94
49.7	49.9	32.31	9.34	24.96
59.7	60.0	32.41	9.14	25.07
69.7	70.0	32.55	8.89	25.22
79.6	80.0	32.63	8.75	25.30
89.6	90.1	32.65	8.71	25.32
99.5	100.0	32.66	8.71	25.33

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COASTAL ZONE OCEANOGRAPHY
CRUISE NO:    14 ALBERNI PROGRAM            TAPE: U01166    -251
LAT   N 49   7.15                           LONG W 124 48.80
DATE 20/ 9/80                               PASS NO. 27
TIME (PST) 0443                             STN: A2

 DEPTH      PRESS       SAL       TEMP    SIGMA-T   OXYGEN
   5.0        4.9     24.27      13.52     18.01
  10.0       10.0     27.87      12.48     20.98
  15.0       15.0     31.47      10.40     24.13
  20.0       20.0     31.82      10.22     24.44
  25.0       25.0     31.92      10.06     24.54
  29.9       30.0     32.02       9.88     24.65
  34.8       34.9     32.09       9.73     24.72
  39.9       40.0     32.16       9.62     24.80
  44.9       45.0     32.21       9.54     24.85
  49.8       50.0     32.21       9.53     24.86    2.68
  59.7       59.9     32.26       9.41     24.91
  69.7       70.0     32.29       9.32     24.95
  74.6       74.9     32.30       9.27     24.97    2.21
  79.6       80.0     32.31       9.24     24.98
  89.5       90.0     32.33       9.22     25.00
 100.5      101.0     32.34       9.20     25.01    2.16
 110.4      111.0     32.34       9.19     25.01
 120.3      120.9     32.34       9.19     25.01
 125.3      126.0     32.35       9.18     25.01    2.32
 126.3      127.0     32.35       9.18     25.02

CRUISE NO:    14 ALBERNI PROGRAM            TAPE: U01166    -252
LAT   N 49   9.91                           LONG W 124 48.62
DATE 20/ 9/80                               PASS NO. 29
TIME (PST) 0530                             STN: A1

 DEPTH      PRESS       SAL       TEMP    SIGMA-T   OXYGEN
   2.6        2.6     20.52      14.19     15.00
   5.0        5.0     21.17      14.12     15.51
  10.1       10.0     26.56      12.44     19.97
  15.1       15.0     31.57      10.11     24.26
  19.9       19.9     31.79      10.00     24.45
  24.9       25.0     31.91       9.80     24.57
  29.8       29.9     31.99       9.75     24.64
  34.9       35.0     32.08       9.54     24.75
  39.9       40.0     32.13       9.42     24.81
  44.9       45.0     32.18       9.37     24.85
  49.7       49.9     32.22       9.33     24.89    1.52
  59.8       60.0     32.27       9.26     24.94
  69.7       70.0     32.29       9.24     24.96
  74.8       75.1     32.30       9.22     24.98    1.51
  79.6       79.9     32.32       9.21     24.99
  89.7       90.1     32.33       9.19     25.00
  99.6      100.0     32.34       9.18     25.01    1.92
 101.5      102.0     32.34       9.17     25.01
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COASTAL ZONE OCEANOGRAPHY

CRUISE NO: 14 ALBERNI PROGRAM
LAT N 49 12.16
DATE 20/ 9/80
TIME (PST) 0500

TAPE: U01166 -253
LONG W 124 49.02
PASS NO. 31
STN: A0

DEPTH	PRESS	SAL	TEMP	SIGMA-T
2.7	2.7	13.33	15.01	9.34
5.1	5.1	19.42	14.12	14.16
9.9	9.9	29.83	11.16	22.73
15.0	15.0	31.71	9.96	24.39
20.1	20.1	31.83	9.79	24.51
24.9	25.0	31.91	9.66	24.60
29.9	29.9	32.02	9.54	24.70
34.9	35.0	32.08	9.48	24.76
40.0	40.1	32.17	9.37	24.85
43.9	44.0	32.20	9.35	24.87

CRUISE NO: 15 ALBERNI PROGRAM
LAT N 49 12.16
DATE 23/10/80
TIME (PST) 1412

TAPE: U01166 -254
LONG W 124 49.02
PASS NO. 1
STN: A0

DEPTH	PRESS	SAL	TEMP	SIGMA-T
2.8	2.8	28.32	11.27	21.54
5.1	5.1	31.13	10.65	23.82
10.0	10.0	31.50	10.45	24.15
15.0	15.0	31.65	10.30	24.29
19.8	19.9	31.70	10.18	24.35
24.9	25.0	31.80	9.97	24.46
29.9	30.1	31.85	9.88	24.52
34.9	35.1	31.91	9.79	24.58
39.8	40.0	32.02	9.64	24.69

COASTAL ZONE OCEANOGRAPHY
CRUISE NO: 15 ALBERNI PROGRAM
LAT N 49 9.91
DATE 23/10/80
TIME (PST) 1438

TAPE: U01166 -255
LONG W 124 48.62
PASS NO. 3
STN: A1

DEPTH	PRESS	SAL	TEMP	SIGMA-T
2.4	2.4	24.81	11.53	18.77
5.0	5.0	26.00	11.36	19.72
10.0	10.0	31.28	10.68	23.94
15.0	15.0	31.56	10.55	24.18
19.9	20.0	31.66	10.39	24.29
25.0	25.1	31.72	10.32	24.34
29.9	30.0	31.77	10.20	24.40
35.0	35.2	31.80	10.16	24.43
39.8	40.0	31.86	10.06	24.49
44.8	45.0	31.96	9.84	24.61
49.8	50.0	32.04	9.69	24.69
59.7	60.0	32.13	9.50	24.79
69.7	70.0	32.19	9.40	24.86
79.6	80.0	32.22	9.37	24.89
89.6	90.1	32.27	9.30	24.93
99.5	100.0	32.28	9.27	24.95
103.5	104.0	32.29	9.27	24.96

CRUISE NO: 15 ALBERNI PROGRAM
LAT N 49 7.15
DATE 23/10/80
TIME (PST) 1505

TAPE: U01166 -256
LONG W 124 48.80
PASS NO. 5
STN: A2

DEPTH	PRESS	SAL	TEMP	SIGMA-T	OXYGEN
2.3	2.3	20.28	11.26	15.31	
5.0	5.0	25.66	11.18	19.49	
10.0	10.0	31.51	10.58	24.13	
15.0	15.0	31.77	10.29	24.39	
20.0	20.1	31.84	10.20	24.46	
24.8	24.9	31.85	10.18	24.47	3.16
29.9	30.0	31.86	10.15	24.48	
34.9	35.0	31.90	10.07	24.53	
39.9	40.0	32.07	9.70	24.71	
44.9	45.0	32.11	9.62	24.76	
49.8	50.0	32.12	9.59	24.78	1.80
59.7	60.0	32.15	9.49	24.81	
69.6	70.0	32.25	9.36	24.91	
74.6	74.9	32.26	9.33	24.92	1.97
79.6	80.0	32.27	9.30	24.94	
89.6	90.0	32.28	9.28	24.95	
100.4	100.9	32.29	9.26	24.96	1.62
110.4	110.9	32.30	9.25	24.97	
120.3	120.9	32.30	9.24	24.97	
125.0	125.7	32.31	9.23	24.97	1.45
125.0	125.7	32.31	9.23	24.97	

COASTAL ZONE OCEANOGRAPHY
CRUISE NO: 15 ALBERNI PROGRAM
TAPE: U01166 -257
LAT N 49 5.50
LONG W 124 49.50
DATE 23/10/80
PASS NO. 7
TIME (PST) 1600
STN: A3

DEPTH	PRESS	SAL	TEMP	SIGMA-T
2.8	2.8	27.86	11.06	21.22
4.9	5.0	29.60	10.99	22.58
9.9	10.0	31.14	11.10	23.75
15.0	15.0	31.58	10.83	24.14
20.0	20.0	31.79	10.42	24.38
24.9	25.0	31.88	10.18	24.49
29.8	30.0	31.95	10.03	24.57
34.8	35.0	31.96	9.99	24.59
39.8	40.0	32.01	9.89	24.64
44.8	45.0	32.08	9.74	24.72
49.7	49.9	32.10	9.69	24.74
59.7	60.0	32.28	9.36	24.93
69.6	70.0	32.[illegible]8	9.20	25.04
79.6	80.0	32.46	9.06	25.12
89.5	90.0	32.56	8.90	25.22
99.5	100.0	32.59	8.83	25.26

COASTAL ZONE OCEANOGRAPHY

CRUISE NO: 15 ALBERNI PROGRAM
LAT N 49 2.70
DATE 23/10/80
TIME (PST) 1624

TAPE: U01166 -258
LONG W 124 51.11
PASS NO. 9
STN: A4

DEPTH	PRESS	SAL	TEMP	SIGMA-T
2.2	2.2	26.66	11.20	20.26
5.0	5.0	30.80	11.21	23.47
9.9	10.0	31.53	10.94	24.09
15.0	15.1	31.64	10.74	24.21
19.9	20.0	31.75	10.61	24.32
24.9	25.0	31.82	10.61	24.37
29.8	30.0	31.89	10.47	24.45
34.8	35.0	31.91	10.33	24.49
39.8	40.0	31.95	10.11	24.55
44.8	45.0	32.03	9.89	24.65
49.8	50.0	32.10	9.73	24.74
59.7	60.0	32.23	9.48	24.88
69.6	70.0	32.44	9.14	25.09
79.7	80.1	32.66	8.75	25.32
89.6	90.1	32.78	8.52	25.46
100.5	101.0	32.87	8.38	25.54
110.4	111.0	32.90	8.34	25.58
120.3	121.0	32.93	8.32	25.61
130.3	131.1	32.94	8.30	25.62
140.2	141.0	32.96	8.29	25.63
150.1	151.0	32.97	8.28	25.64
160.1	161.0	32.98	8.27	25.65
170.0	171.0	32.99	8.25	25.66
179.9	181.0	33.00	8.24	25.67
189.9	191.0	33.01	8.24	25.67
199.8	201.0	33.01	8.24	25.67
204.3	205.6	33.01	8.24	25.68

COASTAL ZONE OCEANOGRAPHY

CRUISE NO: 15 ALBERNI PROGRAM   TAPE: U01166 -259
LAT N 48 59.58   LONG W 124 53.38
DATE 23/10/80   PASS NO. 11
TIME (PST) 1713   STN: A5

DEPTH	PRESS	SAL	TEMP	SIGMA-T	OXYGEN
4.9	4.9	26.10	11.27	19.82	
10.0	10.0	31.70	11.17	24.18	
15.0	15.1	31.77	11.02	24.26	
20.0	20.0	31.87	10.79	24.38	
25.0	25.1	31.90	10.62	24.43	
29.8	29.9	31.93	10.40	24.50	
34.9	35.0	31.97	10.23	24.55	
39.8	40.0	32.01	10.12	24.60	
44.8	45.0	32.10	9.87	24.71	
49.8	50.0	32.17	9.72	24.79	2.94
59.7	60.0	32.52	9.09	25.16	
69.6	69.9	32.76	8.65	25.42	
74.7	75.1	32.80	8.57	25.47	2.00
79.5	79.9	32.83	8.53	25.49	
90.5	91.0	32.84	8.50	25.51	
100.5	101.0	32.91	8.40	25.58	1.79
110.4	111.0	32.94	8.35	25.60	
120.4	121.1	32.97	8.30	25.64	
125.3	126.0	32.97	8.30	25.64	1.76
130.2	131.0	32.97	8.29	25.64	
140.2	141.0	32.98	8.29	25.65	
150.1	150.9	33.00	8.26	25.66	1.64
160.0	160.9	33.00	8.25	25.67	
170.0	171.0	33.01	8.24	25.68	
180.0	181.1	33.01	8.24	25.68	
189.8	190.9	33.01	8.23	25.68	
199.9	201.1	33.01	8.24	25.68	1.69
224.7	226.1	33.01	8.23	25.68	
249.9	251.5	33.02	8.24	25.69	1.69
275.2	277.0	33.02	8.23	25.68	
300.1	302.0	33.02	8.24	25.69	1.69
303.0	304.9	33.02	8.24	25.69	

CRUISE NO: 15 ALBERNI PROGRAM   TAPE: U01166 -260
LAT N 48 57.02   LONG W 125 1.30
DATE 23/10/80   PASS NO. 13
TIME (PST) 1739   STN: A7

DEPTH	PRESS	SAL	TEMP	SIGMA-T	OXYGEN
2.4	2.4	29.19	11.18	22.23	
4.9	4.9	29.38	11.19	22.38	
9.9	9.9	31.37	11.39	23.89	
13.7	13.8	31.80	11.09	24.27	
20.0	20.1	31.87	10.89	24.36	
23.7	23.8	31.90	10.77	24.41	3.43
23.7	23.8	31.90	10.77	24.41	

COASTAL ZONE OCEANOGRAPHY
CRUISE NO: 15 ALBERNI PROGRAM   TAPE: UD1166   -261
LAT N 48 58.20   LONG W 125 7.80
DATE 23/10/80   PASS NO. 15
TIME (PST) 1843   STN: A12

DEPTH	PRESS	SAL	TEMP	SIGMA-T	OXYGEN
2.4	2.4	30.05	11.81	22.78	
5.0	5.0	30.36	11.79	23.03	
9.9	10.0	30.92	11.65	23.49	
14.8	14.9	31.70	11.33	24.15	
19.9	20.0	31.83	10.96	24.32	
24.9	25.0	31.91	10.62	24.44	
29.9	30.1	31.97	10.64	24.48	
34.9	35.1	32.00	10.54	24.52	
39.8	40.0	32.06	10.39	24.60	
44.7	45.0	32.15	10.13	24.71	
49.9	50.1	32.19	10.04	24.75	3.52
59.8	60.1	32.36	9.73	24.94	
69.6	69.9	32.74	8.94	25.36	
74.6	75.0	32.79	8.77	25.43	1.91
79.6	80.0	32.86	8.66	25.50	
84.6	85.0	32.90	8.60	25.54	1.71
90.4	90.9	32.93	8.53	25.57	
95.5	96.0	32.99	8.50	25.62	

CRUISE NO: 15 ALBERNI PROGRAM   TAPE: UD1166   -262
LAT N 48 50.05   LONG W 125 15.80
DATE 23/10/80   PASS NO. 17
TIME (PST) 1956   STN: A14

DEPTH	PRESS	SAL	TEMP	SIGMA-T	OXYGEN
2.6	2.6	31.46	11.45	23.94	
4.9	4.9	31.46	11.45	23.94	
9.9	9.9	31.54	11.64	23.97	
14.8	14.9	31.77	12.01	24.08	
19.9	19.9	31.76	11.54	24.16	
24.9	25.1	31.80	11.46	24.21	
29.8	30.0	31.82	11.23	24.26	
34.8	35.0	31.89	11.06	24.35	
39.8	40.0	31.93	10.79	24.43	
44.8	45.0	31.93	10.68	24.45	
49.8	50.1	32.04	10.32	24.59	4.54
59.7	60.0	32.14	10.33	24.67	
69.7	70.0	32.68	9.23	25.27	
74.7	75.1	32.80	8.89	25.42	2.34
79.7	80.1	32.87	8.72	25.50	
89.7	90.1	32.98	8.58	25.61	2.64
89.7	90.1	32.98	8.58	25.61	

COASTAL ZONE OCEANOGRAPHY
CRUISE NO: 15 ALBERNI PROGRAM TAPE: U01166 -263
LAT N 48 57.02 LONG W 125 1.30
DATE 22/10/80 PASS NO. 1
TIME (PST) 0917 STN: A7

DEPTH	PRESS	SAL	TEMP	SIGMA-T
2.9	2.9	29.06	11.62	22.05
5.0	5.0	29.35	11.68	22.27
10.0	10.1	31.37	12.03	23.77
15.0	15.0	31.59	11.82	23.98
19.9	20.0	31.77	11.43	24.19
24.9	25.0	31.80	11.31	24.23
29.8	30.0	31.86	11.01	24.33
34.9	35.0	31.97	10.60	24.49
39.8	40.0	32.06	10.34	24.60
44.8	45.0	32.17	10.01	24.74
49.8	50.0	32.18	9.93	24.77
59.7	60.0	32.29	9.88	24.86
69.7	70.1	32.42	9.45	25.03
79.6	80.0	32.87	8.61	25.51
89.5	90.0	32.92	8.49	25.57
100.4	101.0	32.93	8.45	25.59
110.3	110.9	32.93	8.44	25.59
120.3	121.0	32.94	8.41	25.60
130.3	131.1	32.97	8.34	25.63
140.2	141.0	33.00	8.29	25.66
150.0	150.9	33.00	8.28	25.66
160.1	161.0	33.00	8.28	25.67
169.9	170.9	33.01	8.27	25.67
179.9	181.0	33.00	8.27	25.67
189.9	191.0	33.01	8.26	25.67
199.8	201.0	33.01	8.26	25.68
224.6	226.0	33.01	8.26	25.68
235.4	236.9	33.02	8.26	25.68

COASTAL ZONE OCEANOGRAPHY

CRUISE NO: 16 ALBERNI PROGRAM TAPE: U01166 -264
LAT N 48 57.02 LONG W 125 1.30
DATE 24/11/80 PASS NO. 1
TIME (PST) 2228 STN: A7

DEPTH	PRESS	SAL	TEMP	SIGMA-T
3.5	3.5	25.56	10.31	19.55
11.3	11.4	30.79	11.81	23.36
15.1	15.1	31.00	11.75	23.53
19.9	20.0	31.04	11.73	23.57
25.0	25.0	31.21	11.64	23.72
29.9	30.0	31.29	11.58	23.79
34.9	35.0	31.42	11.46	23.91
39.9	40.0	31.56	11.21	24.07
44.8	45.0	31.60	11.23	24.09
49.8	50.0	31.73	11.13	24.21
59.8	60.0	31.93	10.85	24.41
69.6	69.9	32.05	10.62	24.55
79.6	79.9	32.27	10.04	24.81
89.6	90.0	32.38	9.74	24.95
99.6	100.1	32.55	9.28	25.16
110.5	111.0	32.80	8.68	25.45
120.4	121.0	32.85	8.57	25.51
130.3	131.0	32.90	8.46	25.56
140.3	141.0	32.91	8.45	25.57
150.2	151.0	32.93	8.41	25.59
160.2	161.0	32.94	8.39	25.60
170.1	171.0	32.94	8.38	25.60
180.0	181.0	32.95	8.34	25.62
181.8	182.8	32.96	8.34	25.62

COASTAL ZONE OCEANOGRAPHY
CRUISE NO: 16 ALBERNI PROGRAM   TAPE: U01166 -265
LAT N 48 53.78   LONG W 125 3.05
DATE 24/11/80   PASS NO. 3
TIME (PST) 2301   STN: A8

DEPTH	PRESS	SAL	TEMP	SIGMA-T
3.5	3.5	29.15	10.75	22.27
5.0	5.1	29.77	11.32	22.65
9.7	9.8	30.78	11.80	23.35
14.9	15.0	31.04	11.72	23.57
20.0	20.0	31.10	11.64	23.63
24.9	25.0	31.24	11.62	23.74
29.8	29.9	31.39	11.61	23.86
34.9	35.0	31.44	11.53	23.92
39.9	40.0	31.51	11.38	23.99
44.8	45.0	31.62	11.07	24.13
49.9	50.1	31.72	10.92	24.24
59.7	60.0	31.97	10.52	24.50
69.7	70.0	32.17	10.12	24.73
79.6	79.9	32.45	9.45	25.05
89.6	90.1	32.67	8.98	25.30
99.5	100.0	32.81	8.65	25.46
110.4	111.0	32.84	8.58	25.50
120.3	121.0	32.88	8.50	25.54
130.3	131.0	32.90	8.46	25.56
140.2	140.9	32.91	8.44	25.57
150.2	151.1	32.91	8.43	25.58
160.1	161.0	32.92	8.41	25.58
170.0	171.0	32.92	8.41	25.58
174.9	175.9	32.92	8.41	25.58

COASTAL ZONE OCEANOGRAPHY

CRUISE NO: 16 ALBERNI PROGRAM TAPE: U01166 -266
LAT N 48 51.50 LONG W 125 8.10
DATE 24/11/80 PASS NO. 5
TIME (PST) 2343 STN: A9

DEPTH	PRESS	SAL	TEMP	SIGMA-T	OXYGEN
3.3	3.3	28.11	10.57	21.49	
5.5	5.5	28.13	10.59	21.50	
10.0	10.0	30.59	11.32	23.29	
14.9	15.0	30.86	11.30	23.50	
20.0	20.1	30.93	11.23	23.57	
24.9	25.0	31.15	11.31	23.73	
29.9	30.1	31.25	11.41	23.78	
34.8	35.0	31.47	11.52	23.94	
39.9	40.1	31.49	11.48	23.96	
44.8	45.0	31.60	11.36	24.07	
49.8	50.0	31.64	11.33	24.11	4.91
59.7	60.0	31.83	10.88	24.33	
69.7	70.0	31.95	10.63	24.47	
74.7	75.1	32.01	10.52	24.53	3.90
79.6	79.9	32.07	10.38	24.60	
89.6	90.0	32.18	10.12	24.73	
99.6	100.0	32.52	9.34	25.13	1.82
110.3	110.9	32.67	9.00	25.30	
120.1	120.7	32.72	8.87	25.36	1.32
126.0	126.6	32.76	8.77	25.40	

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COASTAL ZONE OCEANOGRAPHY
CRUISE NO:    16 ALBERNI PROGRAM          TAPE: U01166    -267
LAT  N 48 48.20                           LONG W 125 14.40
DATE 25/11/80                             PASS NO.  7
TIME (PST) 0044                           STN: A10

 DEPTH     PRESS      SAL       TEMP     SIGMA-T
   3.5       3.5     29.97     10.41     22.96
   5.1       5.1     29.97     10.41     22.96
  10.1      10.1     29.98     10.42     22.97
  14.8      14.9     30.13     10.46     23.08
  19.9      19.9     30.29     10.59     23.18
  24.8      24.9     30.63     10.83     23.41
  29.9      30.0     30.75     10.73     23.51
  34.9      35.0     30.89     10.79     23.62
  39.9      40.0     30.90     10.80     23.62
  45.0      45.2     30.90     10.80     23.62
  49.7      49.9     30.90     10.79     23.62

CRUISE NO:    16 ALBERNI PROGRAM          TAPE: U01166    -268
LAT  N 48 50.05                           LONG W 125 15.80
DATE 25/11/80                             PASS NO.  8
TIME (PST) 0106                           STN: A14

 DEPTH     PRESS      SAL       TEMP     SIGMA-T    OXYGEN
   3.9       3.9     29.90     10.50     22.89
   5.6       5.6     29.90     10.50     22.89
   9.8       9.9     29.93     10.55     22.90
  14.9      15.0     30.05     10.46     23.01
  19.9      20.0     30.10     10.42     23.06
  25.1      25.2     30.15     10.42     23.10
  29.9      30.0     30.18     10.39     23.13
  34.8      34.9     30.24     10.39     23.18
  39.9      40.0     30.47     10.58     23.32
  44.8      45.0     30.88     11.03     23.57
  49.8      49.9     31.26     11.12     23.85      5.59
  59.9      60.1     31.69     11.47     24.12
  70.0      70.3     32.01     11.60     24.34
  74.7      75.0     32.16     11.37     24.50      5.40
  79.6      79.9     32.23     10.79     24.66
  90.1      90.5     32.27     10.20     24.79      3.66
  99.3      99.7     32.38      9.86     24.93
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COASTAL ZONE OCEANOGRAPHY
CRUISE NO: 16 ALBERNI PROGRAM
LAT N 48 54.15
DATE 25/11/80
TIME (PST) 0144

TAPE: U01166 -269
LONG W 125 12.95
PASS NO. 11
STN: A13

DEPTH	PRESS	SAL	TEMP	SIGMA-T
3.2	3.2	26.46	9.88	20.31
4.9	4.9	26.48	9.88	20.33
9.9	9.9	29.00	10.74	22.15
15.0	15.1	29.33	10.57	22.44
19.9	19.9	29.79	10.85	22.75
24.9	24.9	30.65	11.26	23.35
29.9	30.0	30.89	11.67	23.46
35.0	35.1	31.10	11.91	23.58
39.9	40.1	31.26	11.53	23.78
44.9	45.1	31.55	11.57	23.99
49.8	50.0	31.71	11.41	24.14
59.7	59.9	31.98	11.37	24.36
69.8	70.0	32.05	10.76	24.52
79.8	80.1	32.16	10.34	24.68
89.6	90.0	32.35	9.82	24.92
99.4	99.9	32.58	9.26	25.18
105.4	105.8	32.61	9.13	25.23

CRUISE NO: 16 ALBERNI PROGRAM
LAT N 48 58.20
DATE 25/11/80
TIME (PST) 0223

TAPE: U01166 -270
LONG W 125 7.80
PASS NO. 13
STN: A12

DEPTH	PRESS	SAL	TEMP	SIGMA-T	OXYGEN
3.6	3.7	29.79	11.47	22.64	
5.1	5.1	30.00	11.50	22.80	
10.0	10.0	30.76	11.61	23.37	
14.9	14.9	30.95	11.75	23.49	
19.9	20.0	31.17	11.94	23.63	
24.9	25.0	31.21	11.89	23.67	
29.7	29.9	31.40	11.76	23.84	
34.8	34.9	31.48	11.59	23.93	
39.9	40.1	31.56	11.47	24.02	
44.9	45.0	31.62	11.36	24.08	
49.7	49.9	31.67	11.18	24.16	4.87
59.7	60.0	31.96	11.05	24.40	
69.7	70.0	32.00	10.63	24.51	
74.7	75.1	32.08	10.46	24.60	3.69
79.5	79.9	32.16	10.18	24.71	
89.6	90.1	32.34	9.74	24.92	1.72
99.4	99.9	32.67	8.97	25.30	
102.6	103.1	32.69	8.92	25.32	

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COASTAL ZONE OCEANOGRAPHY
CRUISE NO:   16 ALBERNI PROGRAM              TAPE: U01166    -271
LAT  N 48 57.72                              LONG W 125   4.48
DATE 25/11/80                                PASS NO. 15
TIME (PST) 0258                              STN: A11

 DEPTH     PRESS      SAL       TEMP    SIGMA-T
   3.4       3.4     26.44     10.69     20.17
   4.9       4.9     28.80     11.29     21.90
  10.0      10.1     30.69     11.76     23.29
  14.9      15.0     30.94     11.80     23.48
  20.0      20.1     31.11     11.80     23.61
  24.9      24.9     31.21     11.77     23.69
  29.9      30.0     31.35     11.70     23.81
  34.9      35.0     31.43     11.61     23.89
  39.9      40.0     31.53     11.50     23.99
  44.8      45.0     31.69     11.38     24.14
  49.8      50.0     31.80     11.28     24.24
  59.8      60.0     31.91     10.94     24.39
  69.7      70.0     32.03     10.67     24.52
  79.7      80.1     32.17     10.31     24.70
  89.6      90.0     32.36      9.77     24.93
  99.6     100.1     32.61      9.13     25.23
 110.4     110.9     32.76      8.77     25.40
 114.5     115.0     32.77      8.76     25.41
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COASTAL ZONE OCEANOGRAPHY

CRUISE NO: 16 ALBERNI PROGRAM
LAT N 48 58.78
DATE 25/11/80
TIME (PST) 0341

TAPE: U01166 -272
LONG W 124 57.80
PASS NO. 17
STN: A6

DEPTH	PRESS	SAL	TEMP	SIGMA-T	OXYGEN
3.4	3.3	21.80	10.22	16.64	
5.1	5.1	28.65	11.43	21.76	
10.0	10.0	30.80	11.78	23.37	
14.9	14.9	30.99	11.68	23.53	
20.0	20.1	31.21	11.57	23.73	
24.9	25.0	31.37	11.50	23.86	
29.9	30.0	31.49	11.37	23.98	
34.9	35.0	31.57	11.31	24.06	
39.9	40.1	31.65	11.22	24.13	
44.8	45.0	31.71	11.11	24.20	
49.8	50.0	31.82	11.00	24.30	4.50
59.8	60.0	32.00	10.55	24.52	
69.7	70.0	32.14	9.96	24.73	
74.7	75.0	32.23	9.83	24.82	2.65
79.7	80.0	32.38	9.58	24.97	
89.6	90.0	32.60	9.12	25.22	
99.5	100.0	32.80	8.66	25.45	1.62
110.5	111.0	32.86	8.53	25.52	
120.4	121.0	32.89	8.48	25.55	
125.4	126.0	32.89	8.47	25.55	1.46
130.3	131.0	32.91	8.44	25.57	
140.3	141.0	32.92	8.42	25.58	
150.2	151.0	32.93	8.39	25.60	1.56
160.1	161.0	32.94	8.36	25.61	
170.0	171.0	32.96	8.32	25.63	1.51
177.7	178.7	32.96	8.31	25.63	

COASTAL ZONE OCEANOGRAPHY
CRUISE NO: 16 ALBERNI PROGRAM
LAT N 48 57.02
DATE 25/11/80
TIME (PST) 0515

TAPE: U01166 -273
LONG W 125 1.30
PASS NO. 19
STN: A7

DEPTH	PRESS	SAL	TEMP	SIGMA-T	OXYGEN
3.7	3.7	25.84	10.82	19.69	
5.0	5.0	28.56	11.48	21.69	
10.0	10.0	30.86	11.79	23.42	
14.9	14.9	31.01	11.75	23.54	
19.9	19.9	31.09	11.73	23.61	
24.9	25.0	31.21	11.59	23.72	
29.8	29.9	31.34	11.50	23.84	
34.9	35.0	31.51	11.35	24.00	
39.9	40.1	31.58	11.27	24.07	
44.9	45.1	31.67	11.20	24.15	
49.8	50.0	31.74	11.13	24.22	4.74
59.8	60.1	31.96	10.77	24.45	
69.7	70.0	32.13	10.42	24.64	
74.7	75.1	32.19	10.23	24.72	3.47
79.6	79.9	32.33	9.90	24.88	
89.7	90.1	32.50	9.41	25.09	
100.4	100.9	32.76	8.77	25.41	1.84
110.4	111.0	32.83	8.62	25.48	
120.3	121.0	32.86	8.55	25.51	
125.4	126.0	32.88	8.51	25.53	1.41
130.3	131.0	32.91	8.45	25.57	
140.3	141.1	32.92	8.43	25.58	
150.2	151.0	32.92	8.42	25.58	1.36
160.1	161.0	32.93	8.40	25.59	
170.0	170.9	32.93	8.41	25.59	1.46
180.0	181.0	32.93	8.39	25.60	
190.0	191.0	32.94	8.38	25.60	
194.0	195.1	32.94	8.38	25.60	

COASTAL ZONE OCEANOGRAPHY

CRUISE NO: 16 ALBERNI PROGRAM
LAT N 48 58.78
DATE 25/11/80
TIME (PST) 0604

TAPE: U01166 -274
LONG W 124 57.80
PASS NO. 21
STN: A6

DEPTH	PRESS	SAL	TEMP	SIGMA-T
3.2	3.1	18.99	9.74	14.52
5.0	4.9	27.33	10.95	20.82
10.1	10.1	30.67	11.74	23.28
15.0	15.0	30.89	11.73	23.45
19.9	20.0	31.02	11.65	23.57
24.9	25.0	31.23	11.58	23.74
29.9	30.0	31.39	11.48	23.89
35.0	35.1	31.50	11.38	23.98
39.9	40.0	31.62	11.25	24.11
44.8	45.0	31.74	11.08	24.22
49.9	50.1	31.83	10.96	24.32
59.7	60.0	31.97	10.61	24.48
69.7	70.0	32.10	10.05	24.68
79.6	80.0	32.31	9.65	24.91
89.6	90.0	32.65	9.00	25.28
99.6	100.0	32.78	8.69	25.43
110.5	111.1	32.86	8.53	25.52
120.5	121.1	32.89	8.48	25.54
130.2	130.9	32.90	8.44	25.56
140.2	140.9	32.92	8.40	25.59
150.2	151.0	32.94	8.38	25.60
160.1	160.9	32.95	8.35	25.61
169.0	170.0	32.97	8.30	25.64

COASTAL ZONE OCEANOGRAPHY
CRUISE NO: 16 ALBERNI PROGRAM TAPE: U01166 -275
LAT N 48 59.58 LONG W 124 53.38
DATE 25/11/80 PASS NO. 23
TIME (PST) 0646 STN: A5

DEPTH	PRESS	SAL	TEMP	SIGMA-T	OXYGEN
3.7	3.7	15.73	9.17	12.06	
5.1	5.0	24.81	11.22	18.82	
10.1	10.1	30.60	11.79	23.21	
15.0	15.0	30.74	11.70	23.34	
20.0	20.0	30.96	11.56	23.53	
25.0	25.0	31.02	11.49	23.59	
30.0	30.1	31.25	11.31	23.80	
34.9	34.9	31.36	11.13	23.92	
40.0	40.1	31.51	10.92	24.07	
45.0	45.1	31.61	10.83	24.17	
49.7	49.9	31.68	10.82	24.22	3.95
59.8	60.0	31.84	10.56	24.39	
69.7	70.0	31.93	10.38	24.49	
74.6	74.9	32.07	10.05	24.66	2.96
79.7	80.0	32.20	9.77	24.80	
89.7	90.1	32.50	9.20	25.13	
99.6	100.1	32.72	8.82	25.36	1.80
110.5	111.0	32.78	8.65	25.43	
120.4	121.0	32.85	8.52	25.51	
125.4	126.0	32.87	8.49	25.53	1.84
130.3	131.0	32.87	8.49	25.53	
140.3	141.0	32.91	8.41	25.57	
150.3	151.1	32.93	8.37	25.59	1.82
160.1	160.9	32.94	8.34	25.61	
170.1	171.0	32.96	8.32	25.63	
180.1	181.0	32.96	8.31	25.63	
189.9	191.0	32.97	8.30	25.64	
199.9	201.1	32.97	8.29	25.64	1.68
224.7	226.0	32.99	8.27	25.65	
250.5	252.0	32.99	8.27	25.66	1.68
275.4	277.0	32.99	8.27	25.66	
300.2	302.1	32.99	8.27	25.66	
325.0	327.0	32.99	8.27	25.65	
349.8	352.1	32.99	8.28	25.66	

COASTAL ZONE OCEANOGRAPHY

CRUISE NO: 16 ALBERNI PROGRAM
LAT N 49 2.70
DATE 25/11/80
TIME (PST) 0753

TAPE: U01166 -276
LONG W 124 51.11
PASS NO. 25
STN: A4

DEPTH	PRESS	SAL	TEMP	SIGMA-T
3.2	3.1	6.91	8.29	5.26
5.1	5.0	19.41	10.24	14.78
10.1	10.0	30.51	11.76	23.15
15.1	15.0	30.76	11.71	23.35
20.0	19.9	30.95	11.45	23.55
25.0	25.0	31.08	11.28	23.68
29.9	30.0	31.26	11.07	23.85
35.0	35.1	31.41	10.78	24.02
39.9	40.0	31.49	10.62	24.11
44.9	45.0	31.55	10.51	24.18
49.9	50.0	31.65	10.35	24.28
59.8	60.0	31.80	10.29	24.41
69.7	69.9	31.91	10.11	24.52
79.7	80.0	32.10	9.73	24.74
89.6	90.0	32.50	9.06	25.15
99.6	100.0	32.74	8.64	25.41
109.5	110.0	32.81	8.51	25.48
119.6	120.1	32.85	8.43	25.53
130.5	131.1	32.88	8.39	25.55
140.3	140.9	32.91	8.35	25.58
150.3	151.1	32.92	8.33	25.60
160.2	161.0	32.94	8.31	25.62
170.1	171.0	32.96	8.29	25.63
180.0	180.9	32.96	8.28	25.64
190.0	191.0	32.97	8.28	25.64
200.1	201.2	32.98	8.27	25.65
224.7	226.0	32.98	8.27	25.65
226.7	228.0	32.98	8.27	25.65

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COASTAL ZONE OCEANOGRAPHY
CRUISE NO:   16 ALBERNI PROGRAM            TAPE: U01166    -277
LAT  N 49  5.50                            LONG W 124 49.50
DATE 25/11/80                              PASS NO. 27
TIME (PST) 0827                            STN: A3

 DEPTH     PRESS      SAL       TEMP    SIGMA-T
   3.6       3.6     10.26      8.96      7.82
   5.0       5.0     17.14      9.98     13.05
  10.0      10.0     30.45     11.41     23.17
  15.0      15.0     30.78     11.29     23.44
  20.1      20.1     30.95     11.16     23.59
  25.1      25.1     31.07     11.09     23.70
  29.9      30.0     31.26     10.87     23.89
  35.0      35.1     31.39     10.70     24.02
  40.0      40.1     31.54     10.48     24.18
  45.0      45.1     31.61     10.38     24.25
  49.8      49.9     31.66     10.31     24.30
  59.9      60.1     31.73     10.22     24.36
  69.7      70.0     31.79     10.14     24.43
  79.7      80.0     31.82     10.12     24.45
  89.7      90.0     31.86     10.07     24.49
  99.6     100.0     31.88     10.02     24.52
 109.5     110.0     31.89     10.01     24.53
 119.6     120.1     31.91      9.98     24.54
 121.5     122.1     31.91      9.97     24.55
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COASTAL ZONE OCEANOGRAPHY

CRUISE NO:    16 ALBERNI PROGRAM              TAPE: U01166   -278
LAT   N 49  7.15                              LONG W 124 48.80
DATE 25/11/80                                 PASS NO. 29
TIME (PST) 8477                               STN: A2

 DEPTH     PRESS       SAL       TEMP    SIGMA-T    OXYGEN
   3.6       3.6      8.88       8.59     6.78
   5.1       5.0     18.38      10.11    14.00
  10.1      10.0     30.10      11.47    22.89
  15.0      15.0     30.56      11.45    23.25
  20.0      20.0     30.72      11.38    23.38
  24.9      24.9     30.82      11.21    23.49
  29.9      29.9     30.92      11.15    23.58
  35.1      35.1     31.11      10.95    23.76
  40.0      40.1     31.20      10.84    23.85
  44.9      45.0     31.44      10.55    24.08
  49.9      50.0     31.58      10.36    24.22     2.57
  59.9      60.1     31.72      10.15    24.37
  69.9      70.1     31.87       9.89    24.53
  74.8      75.0     31.92       9.82    24.58     1.25
  79.7      79.9     32.03       9.67    24.69
  89.6      90.0     32.14       9.50    24.80
  99.7     100.1     32.20       9.41    24.86     1.17
 109.5     110.0     32.21       9.38    24.88
 120.4     120.9     32.22       9.36    24.89
 125.4     126.0     32.23       9.36    24.89     1.17
 130.4     131.0     32.23       9.35    24.89
 140.4     141.0     32.23       9.34    24.90
 143.1     143.7     32.24       9.34    24.91
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COASTAL ZONE OCEANOGRAPHY
CRUISE NO:   16 ALBERNI PROGRAM          TAPE: U01166   -279
LAT  N 49  9.91                          LONG W 124 48.62
DATE 25/11/80                            PASS NO. 31
TIME (PST) 0931                          STN: A1

 DEPTH     PRESS      SAL       TEMP    SIGMA-T   OXYGEN
   3.4       3.3      7.75      9.36     5.82
   4.9       4.9     13.99      9.75    10.64
  10.1      10.1     30.22     11.54    22.96
  15.1      15.0     30.69     11.31    23.37
  20.1      20.0     30.85     11.15    23.52
  24.9      24.9     30.93     11.14    23.58
  30.0      30.0     31.07     10.85    23.75
  34.9      34.9     31.25     10.70    23.91
  39.8      39.9     31.46     10.43    24.12
  45.0      45.1     31.54     10.30    24.20
  49.9      50.0     31.68     10.10    24.34    1.51
  59.8      60.0     31.83      9.90    24.50
  69.9      70.1     31.98      9.70    24.65
  74.8      75.1     32.07      9.61    24.73    1.10
  79.7      80.0     32.12      9.53    24.78
  89.6      89.9     32.18      9.43    24.85
  99.6     100.0     32.21      9.38    24.88    1.10
 109.6     110.0     32.22      9.38    24.88
 114.5     115.0     32.21      9.38    24.88

CRUISE NO:   16 ALBERNI PROGRAM          TAPE: U01166   -280
LAT  N 49 12.16                          LONG W 124 49.02
DATE 25/11/80                            PASS NO. 33
TIME (PST) 1006                          STN: A0

 DEPTH     PRESS      SAL       TEMP    SIGMA-T
   3.3       3.3      4.76      9.28     3.50
   5.0       4.9     13.17      9.93     9.97
  10.1      10.0     30.38     11.48    23.10
  15.0      14.9     30.60     11.29    23.30
  20.1      20.1     30.71     11.06    23.43
  25.0      25.0     30.84     10.86    23.56
  30.0      30.0     31.05     10.67    23.76
  35.0      35.0     31.24     10.52    23.94
  39.9      40.0     31.38     10.42    24.06
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1981 CTD data

COASTAL ZONE OCEANOGRAPHY
CRUISE NO: 17 ALBERNI PROGRAM   TAPE: U01166 -281
LAT N 48 57.02   LONG W 125 1.30
DATE 7/ 1/81   PASS NO. 20
TIME (PST) 0459   STN: A7

DEPTH	PRESS	SAL	TEMP	SIGMA-T
4.9	4.9	24.16	9.36	18.59
10.0	10.0	29.12	10.28	22.32
15.0	15.1	29.47	10.30	22.59
19.9	19.9	29.66	10.29	22.74
25.0	25.0	29.83	10.29	22.87
30.0	30.0	30.03	10.28	23.03
35.0	35.1	30.22	10.29	23.18
39.9	40.0	30.46	10.33	23.36
45.0	45.1	30.65	10.40	23.49
49.8	49.9	30.91	10.44	23.69
59.8	60.0	31.31	10.53	23.99
69.8	70.1	31.59	10.35	24.24
79.7	80.0	31.84	10.08	24.48
89.7	90.0	32.03	9.88	24.65
99.6	100.0	32.18	9.71	24.80
109.6	110.0	32.34	9.52	24.96
120.4	121.0	32.57	9.13	25.20
130.3	130.9	32.73	8.83	25.37
140.3	140.9	32.76	8.78	25.40
150.2	150.9	32.80	8.69	25.44
160.1	160.9	32.81	8.66	25.46
170.1	171.0	32.83	8.61	25.48
180.0	180.9	32.84	8.59	25.49
190.1	191.1	32.85	8.58	25.50
200.0	201.1	32.85	8.57	25.50
213.8	215.0	32.85	8.57	25.50

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COASTAL ZONE OCEANOGRAPHY

CRUISE NO:   17 ALBERNI PROGRAM           TAPE: U01166   -282
LAT  N 48 53.78                           LONG W 125  3.05
DATE  7/ 1/81                             PASS NO. 21
TIME (PST) 0547                           STN: A8

 DEPTH      PRESS       SAL        TEMP    SIGMA-T
   3.1        3.1      24.59       9.15     18.96
   4.9        4.9      24.97       9.30     19.24
  10.0       10.0      29.10      10.27     22.31
  15.0       15.0      29.39      10.29     22.53
  20.0       20.0      29.59      10.27     22.69
  25.0       25.0      29.84      10.22     22.89
  29.9       30.0      30.00      10.22     23.01
  34.9       35.0      30.16      10.22     23.14
  39.9       40.0      30.34      10.28     23.27
  44.9       45.0      30.62      10.40     23.47
  49.9       50.1      30.92      10.53     23.69
  59.9       60.1      31.37      10.60     24.02
  69.7       70.0      31.77      10.43     24.36
  79.7       80.0      31.95      10.24     24.53
  89.7       90.1      32.02      10.11     24.61
  99.6      100.0      32.18       9.87     24.78
 110.5      110.9      32.41       9.49     25.02
 120.5      121.1      32.77       8.76     25.41
 130.4      131.0      32.79       8.71     25.43
 140.4      141.1      32.80       8.69     25.44
 150.2      150.9      32.80       8.68     25.45
 160.3      161.1      32.81       8.66     25.46
 170.2      171.1      32.83       8.62     25.48
 178.7      179.6      32.82       8.62     25.47
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COASTAL ZONE OCEANOGRAPHY
CRUISE NO: 17 ALBERNI PROGRAM — TAPE: U01166 -283
LAT N 48 51.50 — LONG W 125 8.10
DATE 7/ 1/81 — PASS NO. 23
TIME (PST) 0630 — STN: A9

DEPTH	PRESS	SAL	TEMP	SIGMA-T	OXYGEN
3.2	3.2	27.74	9.49	21.37	
5.0	5.0	28.25	9.94	21.70	
9.9	10.0	29.15	10.24	22.35	
14.9	14.9	29.30	10.15	22.48	
19.9	20.0	29.51	10.09	22.66	
25.0	25.0	29.63	10.11	22.75	
30.0	30.1	29.79	10.11	22.87	
34.9	35.0	30.10	10.10	23.12	
39.8	39.9	30.35	10.14	23.30	
44.9	45.0	30.63	10.32	23.49	
49.9	50.0	31.01	10.51	23.76	4.61
59.9	60.1	31.47	10.61	24.10	
69.8	70.0	31.81	10.42	24.39	
74.6	74.9	31.97	10.22	24.55	3.58
79.6	79.9	32.04	10.12	24.62	
89.6	90.0	32.08	10.03	24.67	
99.6	100.0	32.30	9.69	24.90	2.34
110.5	111.0	32.49	9.33	25.11	
120.4	121.0	32.67	8.97	25.30	
125.4	126.0	32.69	8.93	25.32	1.19
130.4	131.0	32.71	8.88	25.35	
130.4	131.0	32.71	8.88	25.35	

CRUISE NO: 17 ALBERNI PROGRAM — TAPE: U01166 -284
LAT N 48 48.20 — LONG W 125 14.40
DATE 7/ 1/81 — PASS NO. 25
TIME (PST) 0730 — STN: A10

DEPTH	PRESS	SAL	TEMP	SIGMA-T
3.9	3.9	28.47	9.74	21.90
4.9	4.9	28.62	9.74	22.02
10.0	10.0	29.13	9.80	22.41
14.9	14.9	29.41	9.85	22.62
20.0	20.1	29.56	9.79	22.74
24.9	24.9	29.89	9.84	22.99
30.0	30.1	30.23	9.86	23.25
34.8	35.0	30.47	9.97	23.42
39.8	39.9	30.91	10.16	23.73
44.9	45.1	31.69	10.20	24.34

COASTAL ZONE OCEANOGRAPHY
CRUISE NO: 17 ALBERNI PROGRAM
LAT N 48 50.05
DATE 7/ 1/81
TIME (PST) 0758

TAPE: U01166 -285
LONG W 125 15.80
PASS NO. 27
STN: A14

DEPTH	PRESS	SAL	TEMP	SIGMA-T	OXYGEN
4.7	4.7	27.95	9.65	21.51	
5.1	5.1	28.04	9.67	21.58	
10.1	10.1	28.58	9.84	21.97	
15.0	15.0	29.22	9.94	22.46	
19.9	20.0	29.47	10.21	22.61	
25.0	25.1	29.66	10.06	22.78	
29.8	29.9	30.10	10.12	23.11	
34.9	35.0	30.22	10.05	23.22	
39.9	40.0	30.46	10.10	23.39	
44.9	45.0	30.67	10.11	23.56	
49.9	50.1	30.86	10.22	23.68	5.51
59.7	59.9	31.67	10.17	24.33	
69.8	70.1	31.90	10.10	24.52	
74.7	75.0	31.99	10.10	24.59	5.21
79.5	79.8	32.05	10.06	24.64	
89.7	90.1	32.29	9.95	24.85	
99.6	100.1	32.35	9.95	24.89	5.20
101.4	101.9	32.35	9.95	24.89	

CRUISE NO: 17 ALBERNI PROGRAM
LAT N 48 54.15
DATE 7/ 1/81
TIME (PST) 0841

TAPE: U01166 -286
LONG W 125 12.95
PASS NO. 29
STN: A13

DEPTH	PRESS	SAL	TEMP	SIGMA-T
1.0	1.0	26.08	9.21	20.11
5.0	5.0	26.12	9.26	20.14
10.1	10.1	28.98	10.17	22.23
15.0	15.0	29.37	10.22	22.53
20.0	20.0	29.53	10.30	22.64
25.0	25.1	29.82	10.38	22.85
29.9	30.0	30.02	10.27	23.03
35.0	35.0	30.21	10.30	23.17
39.9	40.0	30.32	10.06	23.29
44.9	45.0	30.61	10.30	23.48
49.9	50.1	30.96	10.34	23.74
59.6	59.8	31.35	10.38	24.04
69.8	70.0	31.86	10.06	24.50
79.6	80.0	32.00	9.92	24.63
89.6	90.0	32.05	9.86	24.68
99.7	100.1	32.10	9.80	24.72
108.3	108.7	32.14	9.73	24.77

COASTAL ZONE OCEANOGRAPHY
CRUISE NO: 17 ALBERNI PROGRAM TAPE: U01166 -287
LAT N 48 58.20 LONG W 125 7.80
DATE 7/ 1/81 PASS NO. 31
TIME (PST) 0919 STN: A12

DEPTH	PRESS	SAL	TEMP	SIGMA-T	OXYGEN
3.5	3.5	25.60	9.06	19.76	
5.0	5.0	27.05	9.62	20.81	
10.0	10.0	28.67	10.19	21.99	
15.0	15.0	29.27	10.28	22.43	
19.9	20.0	29.46	10.28	22.59	
24.9	25.0	29.73	10.39	22.78	
29.9	29.9	29.93	10.32	22.95	
34.9	35.0	30.10	10.22	23.10	
39.9	40.1	30.25	10.25	23.20	
44.9	45.1	30.36	10.26	23.29	
49.9	50.1	30.62	10.34	23.48	5.47
59.8	60.0	31.11	10.39	23.85	
69.9	70.1	31.62	10.19	24.28	
74.7	75.0	31.80	10.07	24.44	4.31
79.7	80.0	31.91	9.97	24.55	
89.7	90.1	32.01	9.87	24.64	
94.7	95.1	32.10	9.77	24.73	3.47
98.5	98.9	32.18	9.67	24.81	

CRUISE NO: 17 ALBERNI PROGRAM TAPE: U01166 -288
LAT N 48 57.72 LONG W 125 4.48
DATE 7/ 1/81 PASS NO. 33
TIME (PST) 0952 STN: A11

DEPTH	PRESS	SAL	TEMP	SIGMA-T
3.3	3.3	22.97	9.03	17.71
5.1	5.1	25.66	9.58	19.74
10.0	10.0	28.95	10.24	22.20
15.1	15.1	29.23	10.26	22.41
20.0	20.0	29.35	10.29	22.50
24.9	24.9	29.52	10.32	22.63
29.9	30.0	29.84	10.36	22.87
34.9	35.0	30.08	10.24	23.08
39.9	40.0	30.24	10.28	23.19
44.9	45.1	30.42	10.29	23.34
49.8	49.9	30.63	10.33	23.49
59.8	60.0	31.19	10.36	23.92
69.7	70.0	31.59	10.23	24.26
79.8	80.1	31.82	10.04	24.47
89.7	90.0	32.01	9.86	24.65
99.6	100.1	32.15	9.70	24.78
109.5	110.0	32.34	9.46	24.97
120.5	121.0	32.41	9.37	25.03
130.3	130.9	32.45	9.30	25.08
133.4	134.0	32.46	9.28	25.09

COASTAL ZONE OCEANOGRAPHY
CRUISE NO: 17 ALBERNI PROGRAM
LAT N 48 57.02
DATE 7/ 1/81
TIME (PST) 1018

TAPE: U01166 -289
LONG W 125 1.30
PASS NO. 35
STN: A7

DEPTH	PRESS	SAL	TEMP	SIGMA-T	OXYGEN
3.2	3.2	24.92	9.37	19.19	
5.0	5.0	25.72	9.63	19.78	
10.0	10.0	29.00	10.26	22.23	
15.0	15.0	29.41	10.29	22.55	
19.9	19.9	29.65	10.30	22.73	
25.0	25.0	29.85	10.30	22.89	
29.9	30.0	30.00	10.27	23.01	
35.0	35.0	30.11	10.26	23.10	
39.9	40.0	30.40	10.29	23.32	
44.9	45.0	30.50	10.34	23.39	
49.9	50.0	30.85	10.41	23.65	5.16
59.8	60.0	31.30	10.40	24.00	
69.7	69.9	31.67	10.25	24.32	
74.7	75.0	31.74	10.14	24.39	4.13
79.6	79.9	31.97	9.94	24.60	
89.7	90.0	32.08	9.84	24.70	
99.6	100.0	32.11	9.81	24.73	3.42
109.6	110.0	32.27	9.58	24.89	
120.4	121.0	32.49	9.25	25.12	
125.4	126.0	32.65	8.99	25.28	2.16
130.4	131.0	32.72	8.85	25.36	
140.3	140.9	32.78	8.73	25.42	
150.3	151.0	32.81	8.65	25.46	1.35
160.2	161.0	32.82	8.62	25.48	
170.2	171.1	32.83	8.61	25.48	
180.2	181.1	32.83	8.60	25.48	
190.0	191.0	32.83	8.59	25.49	
200.0	201.0	32.84	8.58	25.50	1.41
224.7	225.9	32.85	8.57	25.50	
238.6	240.0	32.85	8.57	25.50	

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COASTAL ZONE OCEANOGRAPHY

CRUISE NO:   17 ALBERNI PROGRAM          TAPE: U01166   -290
LAT  N 48 58.78                          LONG W 124 57.80
DATE  7/ 1/81                            PASS NO. 37
TIME (PST) 1101                          STN: A6

 DEPTH     PRESS      SAL      TEMP   SIGMA-T
   3.0       3.0     24.96      9.55    19.19
   5.0       5.0     26.62     10.03    20.41
  10.1      10.1     29.26     10.30    22.43
  15.1      15.1     29.47     10.30    22.59
  20.0      20.0     29.71     10.25    22.79
  24.9      24.9     29.93     10.26    22.96
  29.9      30.0     30.09     10.26    23.08
  34.8      34.9     30.27     10.28    23.22
  39.9      40.0     30.50     10.34    23.39
  45.0      45.1     30.78     10.46    23.58
  49.8      50.0     30.94     10.46    23.71
  59.8      60.1     31.37     10.57    24.03
  69.7      70.0     31.73     10.38    24.34
  79.8      80.1     31.90     10.16    24.50
  89.7      90.0     32.02     10.03    24.62
  99.6     100.0     32.11      9.90    24.71
 110.5     111.0     32.28      9.64    24.89
 120.5     121.1     32.50      9.29    25.11
 130.3     130.9     32.68      8.92    25.32
 140.3     141.0     32.78      8.71    25.43
 150.3     151.1     32.81      8.65    25.46
 160.3     161.1     32.83      8.60    25.49
 170.2     171.0     32.87      8.52    25.52
 180.0     180.9     32.88      8.48    25.54
 182.1     183.0     32.89      8.47    25.55
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COASTAL ZONE OCEANOGRAPHY
CRUISE NO: 17 ALBERNI PROGRAM
LAT N 48 59.58
DATE 7/ 1/81
TIME (PST) 1137

TAPE: U01166 -291
LONG W 124 53.38
PASS NO. 39
STN: A5

DEPTH	PRESS	SAL	TEMP	SIGMA-T	OXYGEN
3.0	3.0	17.53	8.46	13.54	
5.0	4.9	26.93	9.89	20.68	
10.0	10.0	29.04	10.27	22.26	
15.0	15.0	29.42	10.27	22.56	
19.9	19.9	29.59	10.22	22.70	
24.9	24.9	29.79	10.20	22.86	
30.0	30.1	30.11	10.21	23.10	
34.9	35.0	30.35	10.29	23.28	
39.8	39.9	30.56	10.37	23.43	
44.8	44.9	30.78	10.43	23.59	
49.8	49.9	31.09	10.50	23.82	3.98
59.7	59.9	31.33	10.49	24.01	
69.8	70.1	31.70	10.37	24.32	
74.6	74.9	31.82	10.26	24.43	3.50
79.8	80.0	31.99	10.11	24.58	
89.7	90.1	32.13	9.90	24.73	
99.6	100.0	32.25	9.69	24.85	2.48
110.4	110.9	32.54	9.15	25.17	
120.5	121.0	32.70	8.85	25.34	
125.3	125.9	32.75	8.74	25.40	1.72
130.4	131.0	32.80	8.66	25.45	
140.2	140.9	32.80	8.65	25.45	
150.1	150.9	32.83	8.59	25.48	1.57
160.3	161.1	32.85	8.53	25.51	
170.2	171.1	32.89	8.45	25.55	
180.0	180.9	32.91	8.41	25.57	
190.0	191.0	32.93	8.37	25.60	
200.0	201.1	32.94	8.35	25.60	1.51
224.8	226.0	32.95	8.33	25.62	
249.7	251.1	32.95	8.33	25.62	1.46
275.5	277.1	32.95	8.34	25.61	
300.3	302.1	32.95	8.34	25.61	1.46
325.1	327.1	32.95	8.34	25.62	
349.7	351.9	32.95	8.34	25.62	1.46
361.7	364.0	32.95	8.34	25.62	

COASTAL ZONE OCEANOGRAPHY

CRUISE NO: 17 ALBERNI PROGRAM
LAT N 49 2.70
DATE 7/ 1/81
TIME (PST) 1237

TAPE: UD1166 -292
LONG W 124 51.11
PASS NO. 41
STN: A4

DEPTH	PRESS	SAL	TEMP	SIGMA-T
3.2	3.1	15.26	8.13	11.80
4.9	4.9	24.57	9.47	18.90
10.0	10.0	28.89	10.13	22.17
15.0	15.0	29.32	10.16	22.50
19.9	19.9	29.48	10.14	22.62
25.0	25.0	29.71	10.10	22.81
30.0	30.0	29.98	10.11	23.02
34.9	35.0	30.25	10.27	23.20
39.9	40.0	30.39	10.31	23.31
44.9	45.0	30.71	10.39	23.54
49.9	50.1	30.95	10.42	23.72
59.8	60.0	31.28	10.41	23.98
69.8	70.0	31.68	10.44	24.29
79.7	80.0	31.95	10.20	24.54
89.8	90.1	32.05	10.02	24.65
99.6	100.0	32.11	9.90	24.72
110.6	111.0	32.30	9.49	24.93
119.5	120.0	32.50	9.11	25.15
130.5	131.0	32.69	8.76	25.35
140.4	141.0	32.76	8.62	25.43
150.3	151.0	32.80	8.55	25.47
160.3	161.1	32.83	8.52	25.49
170.2	171.0	32.85	8.48	25.51
180.2	181.1	32.86	8.44	25.53
190.0	191.0	32.89	8.39	25.56
200.0	201.1	32.91	8.36	25.58
224.8	226.0	32.94	8.33	25.61

COASTAL ZONE OCEANOGRAPHY
CRUISE NO: 17 ALBERNI PROGRAM
LAT N 49 5.50
DATE 7/ 1/81
TIME (PST) 1306

TAPE: U01166   -293
LONG W 124 49.50
PASS NO. 43
STN: A3

DEPTH	PRESS	SAL	TEMP	SIGMA-T
3.5	3.5	17.60	8.75	13.56
4.7	4.7	20.85	9.13	16.05
9.9	9.9	28.89	10.20	22.15
14.9	14.9	29.43	10.19	22.58
20.0	20.0	29.64	10.20	22.74
25.0	25.0	29.76	10.22	22.83
30.0	30.1	29.97	10.27	22.98
35.0	35.1	30.29	10.32	23.23
40.0	40.1	30.64	10.39	23.49
45.0	45.1	30.76	10.46	23.57
49.8	50.0	31.01	10.44	23.77
59.7	59.9	31.21	10.43	23.93
69.9	70.2	31.36	10.41	24.04
79.8	80.1	31.44	10.39	24.11
89.6	89.9	31.55	10.38	24.20
99.6	100.0	31.60	10.38	24.24
109.5	110.0	31.61	10.37	24.25
119.5	120.0	31.71	10.36	24.32
122.3	122.8	31.71	10.36	24.33

COASTAL ZONE OCEANOGRAPHY

CRUISE NO: 17 ALBERNI PROGRAM TAPE: U01166 -294
LAT N 49 7.15 LONG W 124 48.80
DATE 7/ 1/81 PASS NO. 45
TIME (PST) 1353 STN: A2

DEPTH	PRESS	SAL	TEMP	SIGMA-T	OXYGEN
3.0	3.0	10.65	7.91	8.22	
5.1	5.0	22.27	9.38	17.12	
10.0	9.9	28.89	10.17	22.16	
15.0	15.0	29.47	10.20	22.61	
20.0	20.0	29.83	10.26	22.87	
24.9	24.9	29.94	10.29	22.96	
30.0	30.0	30.35	10.43	23.25	
34.9	35.0	30.61	10.42	23.46	
40.0	40.0	30.97	10.47	23.74	
44.9	45.0	31.15	10.52	23.87	
50.0	50.1	31.25	10.57	23.93	2.72
59.8	59.9	31.44	10.36	24.11	
69.8	70.0	31.61	10.16	24.28	
74.7	74.9	31.83	9.90	24.49	1.36
79.7	79.9	31.99	9.70	24.65	
89.6	90.0	32.05	9.62	24.71	
99.6	100.0	32.07	9.58	24.73	.84
109.6	110.0	32.08	9.57	24.75	
119.5	120.0	32.10	9.54	24.77	
124.5	125.0	32.12	9.51	24.79	.73
129.5	130.0	32.13	9.50	24.79	
140.3	141.0	32.14	9.48	24.80	
141.2	141.9	32.14	9.48	24.80	

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COASTAL ZONE OCEANOGRAPHY
CRUISE NO:    17 ALBERNI PROGRAM          TAPE: U01166    -295
LAT   N 49   9.91                         LONG W 124 48.62
DATE   7/ 1/81                            PASS NO. 47
TIME (PST) 1435                           STN: A1

 DEPTH      PRESS       SAL       TEMP    SIGMA-T    OXYGEN
   3.1        3.0     10.00       8.25      7.68
   5.0        5.0     17.39       8.71     13.40
  10.0       10.0     28.86      10.11     22.15
  15.0       15.0     29.32      10.17     22.50
  19.9       19.9     29.55      10.12     22.68
  24.9       24.9     29.83      10.15     22.90
  29.9       29.9     30.17      10.50     23.10
  34.9       34.9     30.40      10.71     23.25
  40.1       40.1     30.72      10.81     23.48
  45.0       45.1     30.96      10.80     23.67
  49.8       49.9     31.11      10.73     23.80     2.19
  59.9       60.0     31.32      10.54     23.99
  69.9       70.1     31.45      10.39     24.12
  74.9       75.1     31.53      10.29     24.20     1.43
  79.9       80.1     31.62      10.18     24.29
  89.8       90.1     31.97       9.72     24.64
  99.8      100.1     32.05       9.62     24.71      .83
 109.6      110.0     32.08       9.57     24.74
 114.6      115.0     32.08       9.57     24.74

CRUISE NO:    17 ALBERNI PROGRAM          TAPE: U01166    -296
LAT   N 49 12.16                          LONG W 124 49.02
DATE   7/ 1/81                            PASS NO. 49
TIME (PST) 1504                           STN: A0

 DEPTH      PRESS       SAL       TEMP    SIGMA-T
   3.0        3.0     10.02       7.89      7.73
   5.0        5.0     17.94       8.79     13.82
  10.1       10.0     29.00      10.02     22.27
  15.1       15.0     29.33      10.06     22.52
  20.0       20.0     29.53      10.08     22.68
  25.0       25.0     29.78      10.16     22.86
  30.1       30.1     29.99      10.47     22.97
  34.9       35.0     30.24      10.70     23.13
  38.6       38.6     30.54      10.89     23.32
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COASTAL ZONE OCEANOGRAPHY
CRUISE NO: 18 ALBERNI PROGRAM
TAPE: U01166 -297
LAT N 49 12.16
LONG W 124 49.02
DATE 5/ 2/81
PASS NO. 39
TIME (PST) 1802
STN: A0

DEPTH	PRESS	SAL	TEMP	SIGMA-T
3.8	3.8	21.95	9.34	16.88
5.0	5.0	26.41	9.82	20.28
10.0	10.0	30.26	10.59	23.16
15.0	15.0	30.60	10.65	23.42
19.9	20.0	30.79	10.59	23.58
24.9	24.9	30.99	10.51	23.74
29.8	29.9	31.05	10.50	23.79
34.9	35.0	31.15	10.46	23.88
39.9	40.0	31.22	10.46	23.93
44.9	45.1	31.25	10.44	23.96
49.9	50.0	31.28	10.41	23.98
59.7	59.9	31.35	10.36	24.05
62.8	63.0	31.38	10.35	24.07

CRUISE NO: 18 ALBERNI PROGRAM
TAPE: U01166 -298
LAT N 49 9.91
LONG W 124 48.62
DATE 5/ 2/81
PASS NO. 31
TIME (PST) 1828
STN: A1

DEPTH	PRESS	SAL	TEMP	SIGMA-T	OXYGEN
5.4	5.4	26.57	9.66	20.43	
10.0	10.0	30.59	10.42	23.45	
14.9	15.0	30.83	10.40	23.63	
19.9	20.0	30.91	10.38	23.70	
24.9	25.0	30.99	10.37	23.76	
30.0	30.1	31.11	10.41	23.85	
34.9	35.0	31.17	10.35	23.91	
39.9	40.1	31.22	10.36	23.95	
44.9	45.1	31.27	10.40	23.98	
49.8	50.0	31.31	10.39	24.01	3.14
59.8	60.0	31.36	10.33	24.06	
69.7	70.0	31.42	10.28	24.11	
74.6	74.9	31.52	10.23	24.20	2.23
79.6	79.9	31.59	10.16	24.27	
89.6	90.0	31.87	9.83	24.54	
99.6	100.0	31.99	9.69	24.65	2.41
110.5	111.0	32.01	9.67	24.67	
112.1	112.7	32.01	9.67	24.67	

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COASTAL ZONE OCEANOGRAPHY
CRUISE NO:   18 ALBERNI PROGRAM               TAPE: U01166   -299
LAT  N 49  7.15                               LONG W 124 48.80
DATE  5/ 2/81                                 PASS NO. 43
TIME (PST) 1904                               STN: A2

 DEPTH     PRESS      SAL      TEMP    SIGMA-T   OXYGEN
   3.6       3.6     22.10     8.31    17.13
   5.0       5.0     27.93     9.41    21.53
  10.1      10.1     30.15    10.36    23.11
  15.0      15.1     30.61    10.32    23.48
  20.0      20.0     30.79    10.27    23.62
  24.9      25.0     30.96    10.26    23.76
  29.9      30.0     31.06    10.27    23.84
  35.0      35.1     31.18    10.24    23.93
  39.9      40.1     31.26    10.24    24.00
  44.8      45.0     31.29    10.22    24.02
  49.8      50.0     31.30    10.23    24.03    3.51
  59.8      60.0     31.37    10.19    24.09
  69.7      70.0     31.49    10.12    24.19
  74.8      75.1     31.53    10.09    24.23    2.97
  79.6      79.9     31.58    10.05    24.28
  89.6      90.0     31.80     9.91    24.47
  99.6     100.0     31.98     9.71    24.64     .70
 109.5     110.0     31.99     9.69    24.66
 119.5     120.0     32.02     9.66    24.68
 125.4     125.9     32.04     9.64    24.70     .68
 127.3     127.9     32.05     9.63    24.71

CRUISE NO:   18 ALBERNI PROGRAM               TAPE: U01166   -300
LAT  N 49  5.50                               LONG W 124 49.50
DATE  5/ 2/81                                 PASS NO. 45
TIME (PST) 1946                               STN: A3

 DEPTH     PRESS      SAL      TEMP    SIGMA-T
   3.0       3.0     18.31     9.99    13.96
   5.0       5.0     28.53     9.96    21.92
   9.9       9.9     30.22    10.27    23.18
  14.9      14.9     30.63    10.26    23.50
  20.0      20.0     30.79    10.26    23.63
  24.9      25.0     30.99    10.25    23.78
  29.9      30.0     31.13    10.23    23.89
  34.9      35.0     31.19    10.22    23.94
  39.9      40.0     31.26    10.20    24.00
  45.0      45.1     31.35    10.20    24.07
  49.9      50.1     31.41    10.19    24.12
  59.8      60.0     31.52    10.19    24.20
  69.7      70.0     31.55    10.19    24.23
  79.6      80.0     31.68    10.18    24.33
  89.5      89.9     31.70    10.18    24.35
  99.6     100.1     31.71    10.18    24.36
 109.5     110.0     31.72    10.18    24.36
 117.4     117.9     31.72    10.18    24.37
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COASTAL ZONE OCEANOGRAPHY
CRUISE NO: 18 ALBERNI PROGRAM TAPE: U01166 -301
LAT N 49 2.70 LONG W 124 51.11
DATE 5/ 2/81 PASS NO. 47
TIME (PST) 2021 STN: A4

DEPTH	PRESS	SAL	TEMP	SIGMA-T
3.5	3.5	27.92	9.83	21.46
5.1	5.1	28.86	10.03	22.16
10.0	10.0	30.06	10.25	23.06
14.9	15.0	30.64	10.31	23.50
19.9	19.9	30.80	10.32	23.62
24.9	25.0	30.97	10.31	23.76
29.8	29.9	31.07	10.28	23.84
34.8	34.9	31.17	10.19	23.93
39.9	40.1	31.27	10.14	24.02
44.8	45.0	31.36	10.11	24.10
49.8	50.0	31.46	10.13	24.17
59.7	60.0	31.60	10.16	24.27
69.7	70.0	31.76	10.11	24.41
79.5	79.9	31.99	10.06	24.59
89.6	90.0	32.05	9.98	24.66
99.6	100.0	32.21	9.70	24.83
110.4	110.9	32.42	9.32	25.05
120.4	121.0	32.61	8.97	25.26
130.3	130.9	32.70	8.83	25.34
140.2	141.0	32.72	8.79	25.37
150.3	151.1	32.75	8.73	25.40
160.2	161.0	32.77	8.70	25.42
170.0	170.9	32.79	8.64	25.44
180.1	181.1	32.81	8.60	25.46
190.0	191.0	32.84	8.52	25.51
200.0	201.1	32.86	8.48	25.53
224.6	225.9	32.91	8.42	25.57
250.4	251.9	32.92	8.40	25.58
275.3	277.0	32.92	8.40	25.58
293.1	294.9	32.93	8.38	25.59

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COASTAL ZONE OCEANOGRAPHY

CRUISE NO:   18 ALBERNI PROGRAM           TAPE: U01166   -302
LAT  N 48 59.58                           LONG W 124 53.38
DATE  5/ 2/81                             PASS NO. 49
TIME (PST) 2120                           STN: A5

 DEPTH      PRESS      SAL       TEMP    SIGMA-T   OXYGEN
   3.9        3.9     28.34      9.74     21.80
   5.1        5.1     28.52      9.95     21.91
  10.0       10.0     30.25     10.26     23.20
  14.9       15.0     30.69     10.19     23.56
  19.9       20.0     30.87     10.19     23.70
  24.9       25.0     30.96     10.18     23.77
  30.0       30.1     31.08     10.17     23.87
  34.9       35.0     31.20     10.15     23.96
  39.9       40.1     31.32     10.11     24.06
  44.8       45.0     31.37     10.10     24.11
  49.9       50.1     31.45     10.04     24.18     5.02
  59.9       60.1     31.58     10.02     24.28
  69.7       70.0     31.80     10.01     24.46
  74.7       75.0     31.85     10.00     24.50     3.70
  79.6       80.0     31.89      9.98     24.53
  89.6       90.0     32.03      9.88     24.65
  99.6      100.1     32.06      9.85     24.68     3.19
 109.6      110.1     32.18      9.71     24.80
 120.4      121.0     32.27      9.59     24.89
 125.3      125.9     32.45      9.30     25.07     2.21
 130.3      130.9     32.54      9.12     25.18
 140.3      141.0     32.71      8.82     25.36
 150.3      151.1     32.75      8.75     25.39     1.58
 160.2      161.0     32.77      8.70     25.42
 170.1      171.0     32.81      8.62     25.47
 175.0      176.0     32.81      8.63     25.46     1.57
 180.0      180.9     32.83      8.60     25.48
 190.1      191.2     32.87      8.51     25.53
 199.9      201.0     32.86      8.52     25.52     1.48
 224.7      226.0     32.91      8.42     25.57
 249.5      251.0     32.91      8.42     25.57
 275.4      277.0     32.91      8.42     25.57
 300.1      302.0     32.91      8.42     25.57
 305.1      307.0     32.91      8.42     25.57
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COASTAL ZONE OCEANOGRAPHY
CRUISE NO: 18 ALBERNI PROGRAM
LAT N 48 58.78
DATE 5/ 2/81
TIME (PST) 2230

TAPE: U01166 -303
LONG W 124 57.80
PASS NO. 51
STN: A6

DEPTH	PRESS	SAL	TEMP	SIGMA-T
4.0	4.0	28.55	9.62	21.98
9.9	9.9	30.55	10.10	23.46
15.1	15.1	30.72	10.09	23.60
20.0	20.1	30.83	10.10	23.68
25.0	25.1	30.91	10.07	23.75
30.0	30.1	30.99	10.08	23.81
34.9	35.1	31.11	10.12	23.90
39.9	40.1	31.16	10.12	23.94
44.9	45.1	31.25	10.11	24.01
49.7	49.9	31.31	10.09	24.06
59.8	60.1	31.48	10.10	24.19
69.6	69.9	31.67	9.96	24.36
79.6	80.0	31.84	9.93	24.50
89.5	89.9	31.93	9.89	24.58
100.4	100.9	32.09	9.76	24.73
110.5	111.0	32.31	9.48	24.94
120.5	121.1	32.44	9.29	25.07
130.3	131.0	32.62	8.99	25.26
140.3	141.0	32.67	8.88	25.32
150.2	151.0	32.76	8.73	25.41
160.1	161.0	32.80	8.66	25.45
170.1	171.0	32.81	8.62	25.46
175.0	175.9	32.84	8.56	25.49

COASTAL ZONE OCEANOGRAPHY

CRUISE NO: 18 ALBERNI PROGRAM TAPE: U01166 -304
LAT N 48 57.02 LONG W 125 1.30
DATE 5/ 2/81 PASS NO. 53
TIME (PST) 2309 STN: A7

DEPTH	PRESS	SAL	TEMP	SIGMA-T	OXYGEN
5.1	5.1	28.14	9.51	21.68	
10.1	10.1	30.20	9.89	23.23	
15.0	15.1	30.59	9.94	23.52	
19.9	20.0	30.84	9.94	23.71	
24.9	25.0	31.08	9.99	23.90	
29.9	30.0	31.08	9.89	23.91	
34.8	35.0	31.12	9.80	23.95	
39.8	40.0	31.24	9.89	24.04	
44.9	45.1	31.30	9.96	24.07	
49.7	49.9	31.38	10.01	24.13	5.50
59.7	60.0	31.56	10.02	24.27	
69.8	70.1	31.76	9.96	24.43	
74.7	75.0	31.86	9.91	24.52	4.31
79.6	79.9	31.90	9.89	24.56	
89.6	90.1	31.99	9.85	24.63	
99.5	100.0	32.08	9.76	24.71	3.24
110.4	111.0	32.31	9.49	24.94	
120.5	121.1	32.54	9.13	25.17	
125.4	126.0	32.54	9.13	25.17	1.80
130.4	131.0	32.62	8.99	25.26	
140.3	141.0	32.71	8.84	25.35	
150.1	150.9	32.75	8.76	25.40	1.41
160.3	161.1	32.77	8.72	25.42	
170.1	171.0	32.78	8.70	25.43	
175.1	176.1	32.78	8.70	25.43	1.34
180.0	181.0	32.79	8.69	25.43	
190.0	191.1	32.79	8.68	25.44	
199.7	200.9	32.79	8.67	25.45	1.41
224.7	226.0	32.80	8.66	25.45	
234.7	236.1	32.80	8.65	25.45	

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COASTAL ZONE OCEANOGRAPHY
CRUISE NO:    18 ALBERNI PROGRAM           TAPE: U01166   -305
LAT  N 48 57.72                            LONG W 125  4.48
DATE  6/ 2/81                              PASS NO. 55
TIME (PST) 0016                            STN: A11

 DEPTH      PRESS       SAL       TEMP    SIGMA-T

   4.9        4.9      29.00      9.48     22.35
  10.0       10.0      29.46      9.53     22.71
  15.0       15.0      30.70      9.64     23.66
  19.9       20.0      30.83      9.60     23.76
  24.8       24.9      30.91      9.64     23.82
  29.9       30.0      30.92      9.64     23.83
  34.9       35.0      30.92      9.54     23.84
  39.8       39.9      31.04      9.60     23.93
  44.8       45.0      31.19      9.69     24.03
  49.7       49.9      31.40      9.96     24.15
  59.8       60.0      31.62     10.05     24.31
  69.8       70.1      31.86      9.96     24.51
  79.7       80.0      32.00      9.90     24.63
  89.6       90.0      32.07      9.83     24.70
  99.5      100.0      32.08      9.80     24.71
 110.5      111.0      32.26      9.54     24.89
 113.3      113.8      32.28      9.52     24.91

CRUISE NO:    18 ALBERNI PROGRAM           TAPE: U01166   -306
LAT  N 48 58.20                            LONG W 125  7.80
DATE  6/ 2/81                              PASS NO. 57
TIME (PST) 0056                            STN: A12

 DEPTH      PRESS       SAL       TEMP    SIGMA-T    OXYGEN
   3.5        3.5      28.50      9.25     22.00
   5.0        5.0      28.79      9.47     22.19
  10.0       10.0      30.21     10.08     23.20
  15.0       15.0      30.66      9.87     23.59
  19.9       19.9      30.91      9.55     23.83
  24.9       25.0      31.00      9.54     23.91
  30.0       30.1      31.19      9.98     23.98
  34.9       35.1      31.29      9.95     24.07
  39.9       40.1      31.33      9.94     24.10
  44.8       45.0      31.46     10.09     24.18
  49.7       49.9      31.50     10.10     24.21     5.31
  59.8       60.1      31.68     10.09     24.35
  69.7       70.0      31.84      9.98     24.50
  74.7       75.0      31.88      9.96     24.53     4.43
  79.7       80.1      31.94      9.93     24.58
  84.6       85.0      31.98      9.91     24.61     4.13
  89.6       90.0      32.03      9.84     24.66
  99.6      100.0      32.13      9.71     24.76
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COASTAL ZONE OCEANOGRAPHY
CRUISE NO: 18 ALBERNI PROGRAM TAPE: U01166 -307
LAT N 48 54.15 LONG W 125 12.95
DATE 6/ 2/81 PASS NO. 59
TIME (PST) 0155 STN: A13

DEPTH	PRESS	SAL	TEMP	SIGMA-T
3.5	3.5	29.67	9.37	22.90
5.0	5.0	29.81	9.55	22.98
10.0	10.0	30.23	9.83	23.26
15.1	15.1	30.61	9.83	23.56
20.0	20.0	30.88	9.82	23.77
24.9	25.0	30.99	9.48	23.91
29.9	30.1	31.11	9.50	24.00
34.8	35.0	31.17	9.52	24.04
39.8	40.0	31.26	9.54	24.11
44.8	45.0	31.36	9.72	24.16
49.8	50.0	31.42	9.67	24.22
59.7	60.0	31.50	9.68	24.28
69.8	70.1	31.82	10.09	24.46
79.6	79.9	31.96	10.11	24.56
89.6	90.0	32.11	10.19	24.67
100.4	100.9	32.20	10.12	24.75
109.2	109.7	32.21	10.12	24.76

CRUISE NO: 18 ALBERNI PROGRAM TAPE: U01166 -308
LAT N 48 50.05 LONG W 125 15.80
DATE 6/ 2/81 PASS NO. 61
TIME (PST) 0229 STN: A14

DEPTH	PRESS	SAL	TEMP	SIGMA-T	OXYGEN
5.0	5.0	29.61	8.98	22.90	
10.0	10.0	30.29	8.87	23.45	
14.9	15.0	30.68	8.64	23.79	
19.9	20.0	30.69	8.57	23.81	
24.9	25.0	30.73	8.58	23.84	
30.0	30.1	30.80	8.66	23.88	
34.9	35.0	30.83	8.59	23.92	
39.8	39.9	30.87	8.53	23.96	
44.8	45.0	30.94	8.59	24.00	
49.8	50.0	31.02	8.90	24.02	5.81
59.7	60.0	31.38	9.06	24.27	
69.7	70.0	31.48	9.52	24.29	
74.5	74.8	31.66	9.65	24.41	5.56
79.6	79.9	31.71	9.65	24.44	
89.5	90.0	31.99	9.91	24.62	5.58
99.5	100.0	32.15	10.08	24.72	
101.6	102.1	32.18	10.10	24.74	

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COASTAL ZONE OCEANOGRAPHY
CRUISE NO:   18 ALBERNI PROGRAM          TAPE: U01166   -309
LAT  N 48 48.20                          LONG W 125 14.40
DATE  6/ 2/81                            PASS NO. 63
TIME (PST) 0329                          STN: A10

 DEPTH     PRESS      SAL       TEMP    SIGMA-T
   3.2       3.2     30.14      8.67     23.36
   6.2       6.2     30.15      8.80     23.35
   9.8       9.8     30.57      8.57     23.71
  15.1      15.1     30.82      8.51     23.92
  20.0      20.1     30.87      8.54     23.96
  24.9      25.0     30.96      8.59     24.02
  29.6      29.7     31.01      8.58     24.06
  34.8      35.0     31.13      8.64     24.15
  39.9      40.0     31.21      8.75     24.19
  42.9      43.1     31.22      8.77     24.20

CRUISE NO:   18 ALBERNI PROGRAM          TAPE: U01166   -310
LAT  N 48 51.50                          LONG W 125  8.10
DATE  6/ 2/81                            PASS NO. 65
TIME (PST) 0438                          STN: A9

 DEPTH     PRESS      SAL       TEMP    SIGMA-T   OXYGEN
   2.9       2.9     29.92      9.15     23.12
   5.1       5.1     29.93      9.17     23.13
  10.0      10.0     30.48      9.11     23.57
  15.0      15.1     30.67      9.14     23.71
  20.0      20.1     30.79      9.14     23.81
  24.8      24.9     30.98      9.48     23.90
  29.8      30.0     31.03      9.46     23.94
  34.8      35.0     31.05      9.47     23.96
  39.7      39.9     31.19      9.76     24.02
  44.7      44.9     31.33     10.05     24.08
  49.9      50.1     31.39     10.00     24.14    4.51
  59.7      59.9     31.61     10.20     24.28
  69.5      69.9     31.81     10.17     24.44
  74.7      75.0     31.88     10.13     24.49    3.54
  79.5      79.9     31.98     10.02     24.59
  89.6      90.0     32.06      9.92     24.67
 100.4     100.9     32.26      9.66     24.87    2.34
 109.6     110.1     32.48      9.31     25.10
 113.4     114.0     32.51      9.26     25.13
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COASTAL ZONE OCEANOGRAPHY
CRUISE NO:   18 ALBERNI PROGRAM             TAPE: U01166   -311
LAT  N 48 53.78                             LONG W 125  3.05
DATE  6/ 2/81                               PASS NO. 67
TIME (PST) 0532                             STN: A8

 DEPTH     PRESS      SAL       TEMP    SIGMA-T
   3.6       3.6     28.09      9.15     21.70
   4.9       4.9     29.48      9.50     22.73
  10.0      10.0     30.56     10.10     23.48
  14.8      14.9     30.64      9.70     23.60
  19.9      20.0     30.87      9.81     23.76
  24.8      24.9     30.91      9.92     23.77
  29.8      29.9     31.05     10.00     23.87
  34.9      35.1     31.10     10.07     23.90
  39.8      39.9     31.16     10.11     23.94
  44.8      45.0     31.33     10.16     24.07
  49.9      50.1     31.45     10.10     24.17
  59.9      60.1     31.61     10.06     24.30
  69.7      70.0     31.73     10.02     24.40
  79.7      80.1     31.88      9.97     24.53
  89.6      90.0     31.98      9.91     24.61
 100.6     101.0     32.13      9.80     24.75
 110.5     111.0     32.21      9.72     24.83
 120.4     121.0     32.42      9.39     25.04
 130.3     131.0     32.58      9.11     25.21
 140.2     140.9     32.69      8.90     25.33
 148.1     148.9     32.70      8.87     25.34
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COASTAL ZONE OCEANOGRAPHY

CRUISE NO: 18 ALBERNI PROGRAM
TAPE: U01166 -312
LAT N 48 53.78
LONG W 125 3.05
DATE 9/ 2/81
PASS NO. 1
TIME (PST) 0009
STN: A8

DEPTH	PRESS	SAL	TEMP	SIGMA-T
2.8	2.8	29.90	9.47	23.06
5.0	5.0	29.89	9.49	23.05
9.9	10.0	30.80	9.92	23.69
15.0	15.0	30.96	9.98	23.80
19.7	20.0	31.12	9.98	23.93
24.8	24.9	31.25	10.13	24.01
29.9	30.0	31.29	10.01	24.06
34.9	35.1	31.36	10.05	24.10
39.8	40.0	31.44	10.08	24.16
44.7	44.9	31.47	10.07	24.19
49.7	50.0	31.58	10.06	24.27
59.6	59.9	31.76	10.00	24.43
69.7	70.0	31.85	9.95	24.50
79.6	80.0	31.95	9.90	24.59
89.6	90.1	32.05	9.85	24.67
100.4	100.9	32.19	9.73	24.81
110.4	111.0	32.40	9.41	25.02
120.5	121.1	32.63	9.01	25.26
130.3	131.0	32.66	8.95	25.29
140.1	140.9	32.72	8.82	25.37
150.2	151.0	32.73	8.80	25.38
160.1	161.0	32.74	8.78	25.39
170.0	171.0	32.75	8.76	25.40
178.2	179.2	32.75	8.76	25.40

COASTAL ZONE OCEANOGRAPHY
CRUISE NO: 18 ALBERNI PROGRAM
LAT N 48 51.50
DATE 9/ 2/81
TIME (PST) 0115

TAPE: U01166 -313
LONG W 125 8.10
PASS NO. 3
STN: A9

DEPTH	PRESS	SAL	TEMP	SIGMA-T	OXYGEN
3.0	3.0	30.63	9.49	23.63	
5.0	5.0	30.61	9.53	23.60	
10.0	10.1	30.70	9.60	23.66	
14.9	15.0	30.85	9.10	23.85	
19.8	19.9	30.97	9.17	23.94	
24.9	25.0	31.04	9.34	23.97	
29.8	30.0	31.09	9.36	24.01	
34.8	34.9	31.15	9.56	24.02	
39.9	40.1	31.39	10.18	24.11	
44.8	45.0	31.43	10.14	24.14	
49.8	50.0	31.49	9.85	24.24	4.67
59.7	60.0	31.75	10.10	24.40	
69.6	69.9	31.89	10.06	24.52	
74.5	74.9	31.92	10.03	24.54	3.35
79.5	79.9	31.98	9.98	24.60	
89.6	90.0	32.04	9.93	24.65	
99.6	100.1	32.05	9.91	24.67	3.05
110.4	110.9	32.11	9.84	24.72	
120.5	121.1	32.29	9.57	24.91	
125.3	125.9	32.57	9.13	25.20	1.69
130.3	131.0	32.60	9.09	25.23	
140.3	141.0	32.62	9.05	25.25	
142.1	142.9	32.61	9.05	25.24	

CRUISE NO: 18 ALBERNI PROGRAM
LAT N 48 48.20
DATE 9/ 2/81
TIME (PST) 0211

TAPE: U01166 -314
LONG W 125 14.40
PASS NO. 5
STN: A10

DEPTH	PRESS	SAL	TEMP	SIGMA-T
4.0	4.0	30.58	8.13	23.79
5.0	5.0	30.58	8.13	23.79
10.0	10.1	30.58	8.14	23.79
15.0	15.1	30.67	8.22	23.85
19.8	19.9	30.76	8.28	23.91
24.9	25.0	30.90	8.34	24.01
29.8	30.0	30.96	8.35	24.06
35.0	35.1	31.01	8.35	24.09
39.8	40.0	31.03	8.35	24.11
44.7	44.9	31.07	8.42	24.13

COASTAL ZONE OCEANOGRAPHY
CRUISE NO: 18 ALBERNI PROGRAM TAPE: U01166 -315
LAT N 48 44.80 LONG W 125 21.60
DATE 9/ 2/81 PASS NO. 7
TIME (PST) 0249 STN: A15

DEPTH	PRESS	SAL	TEMP	SIGMA-T
3.3	3.3	30.86	8.16	24.00
5.1	5.1	30.88	8.18	24.01
10.1	10.1	30.88	8.22	24.01
15.1	15.1	30.89	8.20	24.02
20.0	20.1	30.90	8.16	24.03
24.9	25.0	30.91	8.14	24.05
30.0	30.1	30.98	8.26	24.08
34.8	34.9	31.05	8.35	24.13
39.9	40.1	31.13	8.43	24.18
44.8	45.0	31.17	8.48	24.20
49.7	50.0	31.17	8.46	24.20
59.6	59.9	31.25	8.57	24.25
69.6	69.9	31.36	8.63	24.32
79.6	80.0	31.42	8.70	24.37
89.5	90.0	31.46	8.76	24.39
100.3	100.8	31.77	9.45	24.52
100.3	100.8	31.77	9.45	24.52

CRUISE NO: 18 ALBERNI PROGRAM TAPE: U01166 -316
LAT N 48 50.05 LONG W 125 15.80
DATE 9/ 2/81 PASS NO. 9
TIME (PST) 0347 STN: A14

DEPTH	PRESS	SAL	TEMP	SIGMA-T	OXYGEN
3.6	3.6	30.57	8.83	23.68	
4.9	4.9	30.57	8.83	23.68	
10.0	10.0	30.57	8.79	23.68	
14.9	14.9	30.65	8.60	23.77	
19.9	20.0	30.73	8.39	23.87	
24.8	24.9	30.71	8.34	23.86	
29.9	30.1	30.73	8.36	23.88	
34.9	35.1	30.88	8.48	23.97	
39.8	40.0	30.98	8.52	24.05	
44.8	45.0	31.01	8.54	24.07	
49.9	50.1	31.08	8.57	24.12	5.86
59.8	60.0	31.34	8.82	24.28	
69.6	69.9	31.61	9.24	24.43	
74.6	74.9	31.74	9.44	24.50	5.62
79.7	80.1	31.80	9.56	24.53	
89.5	89.9	31.92	9.73	24.60	5.59
96.4	96.9	31.97	9.82	24.62	

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COASTAL ZONE OCEANOGRAPHY
CRUISE NO:    18 ALBERNI PROGRAM              TAPE: U01166    -317
LAT  N 48 54.15                               LONG W 125 12.95
DATE  9/ 2/81                                 PASS NO. 11
TIME (PST) 0434                               STN: A13

 DEPTH      PRESS      SAL       TEMP    SIGMA-T
   3.3        3.3     30.03       8.78    23.27
   5.0        5.0                 8.73
  10.0       10.1     30.05       8.75    23.28
  14.9       15.0     30.18       9.17    23.32
  19.9       20.0     30.63       9.19    23.67
  24.9       25.0     30.80       9.16    23.81
  29.8       30.0     30.92       8.93    23.94
  34.8       35.0     31.08       9.14    24.03
  39.8       40.0     31.20       9.31    24.10
  44.8       45.0     31.36       9.49    24.19
  49.8       50.0     31.47       9.77    24.23
  59.8       60.0     31.77      10.02    24.43
  69.6       70.0     31.87      10.06    24.50
  79.6       80.0     31.96      10.11    24.56
  89.6       90.0     32.05      10.16    24.63
 100.4      100.9     32.12      10.17    24.68
 110.2      110.7     32.18      10.15    24.73
 110.2      110.7     32.18      10.15    24.73

CRUISE NO:    18 ALBERNI PROGRAM              TAPE: U01166    -318
LAT  N 48 58.20                               LONG W 125  7.80
DATE  9/ 2/81                                 PASS NO. 13
TIME (PST) 0516                               STN: A12

 DEPTH      PRESS      SAL       TEMP    SIGMA-T    OXYGEN
  10.0       10.0     30.44      10.18    23.37
  15.0       15.0     30.89      10.02    23.74
  19.9       20.0     31.04       9.94    23.87
  24.9       25.0     31.12       9.74    23.97
  29.9       30.0     31.22      10.04    24.00
  34.9       35.0     31.40      10.01    24.14
  39.8       40.0     31.45      10.01    24.18
  44.8       45.0     31.53      10.05    24.24
  49.8       50.0     31.58      10.08    24.27     5.56
  59.8       60.0     31.74      10.06    24.40
  69.7       70.0     31.86       9.98    24.51
  74.7       75.1     31.91       9.99    24.55     4.47
  79.6       80.0     31.94       9.98    24.57
  89.6       90.0     31.99       9.90    24.62     4.35
  99.6      100.0     32.08       9.81    24.71
 101.3      101.8     32.11       9.78    24.73
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COASTAL ZONE OCEANOGRAPHY
CRUISE NO:   18 ALBERNI PROGRAM          TAPE: UD1166   -319
LAT  N 48 57.72                          LONG W 125  4.48
DATE  9/ 2/81                            PASS NO. 15
TIME (PST) 0559                          STN: A11

 DEPTH     PRESS      SAL       TEMP    SIGMA-T
   3.5       3.5     29.49      9.54    22.73
   4.9       4.9     29.90      9.29    23.08
   9.9      10.0     30.42      9.72    23.43
  15.0      15.1     30.93      9.72    23.82
  19.9      20.0     31.06      9.74    23.92
  24.9      25.0     31.15      9.78    23.99
  29.8      29.9     31.22      9.84    24.03
  34.8      35.0     31.27      9.81    24.08
  39.8      40.0     31.36      9.87    24.13
  45.0      45.1     31.47      9.87    24.22
  49.8      50.1     31.62      9.94    24.32
  59.6      59.9     31.72      9.69    24.44
  69.6      69.9     31.87      9.97    24.51
  79.6      80.0     31.93      9.98    24.56
  90.5      90.9     32.00      9.97    24.62
  93.2      93.6     32.01      9.96    24.63
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COASTAL ZONE OCEANOGRAPHY

CRUISE NO: 18 ALBERNI PROGRAM
LAT N 48 57.02
DATE 9/ 2/81
TIME (PST) 0635

TAPE: U01166 -320
LONG W 125 1.30
PASS NO. 17
STN: A7

DEPTH	PRESS	SAL	TEMP	SIGMA-T	OXYGEN
2.9	2.9	28.20	9.19	21.77	
4.9	5.0	28.46	9.28	21.96	
10.1	10.1	30.70	10.10	23.58	
15.0	15.1	30.95	9.76	23.83	
20.0	20.1	31.05	9.84	23.90	
25.0	25.1	31.13	9.84	23.96	
29.9	30.0	31.15	9.82	23.98	
34.9	35.0	31.27	9.91	24.06	
39.8	39.9	31.41	9.90	24.16	
44.8	45.0	31.46	9.94	24.20	
49.6	49.8	31.54	9.95	24.26	5.46
59.8	60.0	31.84	9.96	24.49	
69.6	69.9	31.93	9.95	24.56	
74.6	75.0	31.97	9.93	24.60	4.26
79.6	79.9	32.03	9.87	24.66	
89.7	90.1	32.11	9.78	24.74	
99.6	100.1	32.17	9.71	24.80	3.05
110.4	110.9	32.38	9.38	25.01	
120.5	121.1	32.58	9.07	25.21	
125.3	126.0	32.64	8.97	25.28	1.73
130.2	130.9	32.68	8.89	25.32	
140.2	141.0	32.73	8.81	25.37	
150.1	150.9	32.75	8.76	25.40	1.46
160.2	161.1	32.78	8.71	25.43	
170.0	171.0	32.78	8.69	25.43	
179.9	180.9	32.79	8.68	25.44	
189.9	191.0	32.80	8.66	25.45	
199.8	200.9	32.80	8.66	25.45	1.37
224.7	226.0	32.81	8.65	25.46	
244.7	246.2	32.81	8.64	25.46	

COASTAL ZONE OCEANOGRAPHY
CRUISE NO: 18 ALBERNI PROGRAM TAPE: U01166 -321
LAT N 48 58.78 LONG W 124 57.80
DATE 9/ 2/81 PASS NO. 19
TIME (PST) 0728 STN: A6

DEPTH	PRESS	SAL	TEMP	SIGMA-T
3.4	3.4	29.21	9.56	22.51
5.0	5.0	29.37	9.53	22.63
10.1	10.1	30.82	10.16	23.67
14.9	15.0	30.97	10.10	23.79
19.8	19.9	31.12	10.11	23.91
25.0	25.1	31.22	10.11	23.98
30.0	30.1	31.28	10.11	24.04
35.0	35.1	31.38	10.10	24.12
39.9	40.1	31.46	10.07	24.18
45.0	45.2	31.57	10.03	24.27
49.7	49.9	31.63	9.95	24.33
59.8	60.1	31.75	9.99	24.42
69.6	69.9	31.88	9.94	24.53
79.6	80.0	31.95	9.89	24.59
89.6	90.1	32.10	9.75	24.73
100.4	100.9	32.24	9.58	24.87
110.5	111.0	32.41	9.32	25.04
120.6	121.2	32.63	8.94	25.27
130.3	131.0	32.67	8.87	25.32
140.3	141.0	32.70	8.82	25.35
150.1	150.9	32.74	8.75	25.39
160.1	160.9	32.77	8.70	25.42
170.0	171.0	32.81	8.62	25.46
179.8	180.8	32.83	8.59	25.48
184.7	185.8	32.82	8.59	25.48

COASTAL ZONE OCEANOGRAPHY

CRUISE NO: 18 ALBERNI PROGRAM
LAT N 48 59.58
DATE 9/ 2/81
TIME (PST) 0810

TAPE: U01166 -322
LONG W 124 53.38
PASS NO. 21
STN: A5

DEPTH	PRESS	SAL	TEMP	SIGMA-T	OXYGEN
3.1	3.1	29.46	9.91	22.65	
5.0	5.0	29.86	9.98	22.95	
10.0	10.1	30.61	10.22	23.50	
14.9	15.0	30.96	10.18	23.78	
19.9	20.0	31.10	10.15	23.89	
24.9	25.0	31.21	10.14	23.97	
29.8	29.9	31.29	10.11	24.04	
34.9	35.1	31.36	10.09	24.10	
39.8	40.0	31.41	10.06	24.15	
44.7	44.9	31.56	10.01	24.27	
49.8	50.0	31.58	10.02	24.28	4.71
59.7	60.0	31.69	9.98	24.38	
69.7	70.1	31.83	9.93	24.49	
74.7	75.0	31.85	9.92	24.51	3.81
79.5	79.9	31.93	9.89	24.57	
89.5	90.0	32.04	9.84	24.67	
100.5	101.0	32.17	9.69	24.79	3.16
110.4	111.0	32.41	9.35	25.04	
120.4	121.0	32.62	8.99	25.26	
125.4	126.1	32.62	8.98	25.26	1.94
130.4	131.1	32.63	8.97	25.27	
140.2	141.0	32.69	8.86	25.34	
150.2	151.1	32.71	8.82	25.36	1.71
160.1	160.9	32.74	8.75	25.39	
170.2	171.1	32.77	8.69	25.42	
175.0	176.0	32.79	8.67	25.44	1.58
180.1	181.1	32.80	8.65	25.45	
189.9	191.0	32.81	8.62	25.46	
199.8	200.9	32.84	8.57	25.49	1.51
224.7	226.0	32.90	8.44	25.56	1.41
250.5	252.0	32.90	8.43	25.57	
275.3	277.0	32.91	8.42	25.57	1.38
300.2	302.0	32.91	8.42	25.57	
325.0	327.1	32.91	8.42	25.57	
349.8	352.0	32.91	8.42	25.57	
354.6	356.8	32.91	8.42	25.57	

COASTAL ZONE OCEANOGRAPHY
CRUISE NO: 18 ALBERNI PROGRAM TAPE: U01166 -323
LAT N 49 2.70 LONG W 124 51.11
DATE 9/ 2/81 PASS NO. 23
TIME (PST) 0914 STN: A4

DEPTH	PRESS	SAL	TEMP	SIGMA-T
5.0	5.0	25.04	9.37	19.28
9.9	9.9	30.76	10.32	23.59
15.0	15.1	30.96	10.24	23.77
20.0	20.1	31.06	10.18	23.85
24.9	25.0	31.14	10.16	23.91
30.0	30.1	31.22	10.15	23.98
34.9	35.0	31.31	10.11	24.06
39.8	40.0	31.43	10.08	24.15
44.8	45.0	31.52	10.10	24.22
49.8	50.0	31.59	10.06	24.28
59.7	60.0	31.75	9.97	24.42
69.8	70.1	31.86	9.97	24.51
79.6	79.9	31.96	10.00	24.58
89.5	89.9	32.04	10.00	24.64
99.6	100.1	32.11	9.88	24.72
110.5	111.0	32.26	9.61	24.88
120.5	121.1	32.43	9.30	25.06
130.3	131.0	32.60	9.01	25.24
140.2	140.9	32.69	8.84	25.33
150.2	151.0	32.74	8.77	25.38
160.2	161.1	32.77	8.68	25.42
170.2	171.1	32.79	8.64	25.44
180.0	181.0	32.80	8.60	25.46
190.0	191.0	32.83	8.55	25.49
199.9	201.0	32.86	8.51	25.52
224.7	226.0	32.89	8.45	25.55
249.6	251.0	32.90	8.43	25.57
275.3	277.0	32.91	8.41	25.58
285.1	286.8	32.91	8.40	25.58

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COASTAL ZONE OCEANOGRAPHY

CRUISE NO:    18 ALBERNI PROGRAM          TAPE: U01166    -324
LAT  N 49  5.50                           LONG W 124 49.50
DATE  9/ 2/81                             PASS NO. 25
TIME (PST) 0952                           STN: A3

 DEPTH     PRESS      SAL       TEMP   SIGMA-T

   5.0       5.0     24.21      9.54    18.61
  10.0      10.0     30.80     10.21    23.64
  15.0      15.0     30.85     10.21    23.68
  20.0      20.0     31.07     10.20    23.86
  24.9      25.0     31.24     10.18    23.99
  29.9      30.0     31.25     10.18    24.00
  34.9      35.0     31.28     10.17    24.03
  39.8      40.0     31.34     10.17    24.07
  44.8      45.0     31.45     10.16    24.15
  49.8      49.9     31.56     10.15    24.25
  59.7      59.9     31.63     10.15    24.30
  69.7      70.0     31.72     10.13    24.38
  79.6      79.9     31.74     10.13    24.39
  89.5      89.9     31.75     10.13    24.40
  99.6     100.1     31.77     10.13    24.41
  99.6     100.1     31.77     10.13    24.41
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COASTAL ZONE OCEANOGRAPHY
CRUISE NO: 18 ALBERNI PROGRAM
LAT N 49 7.15
DATE 9/ 2/81
TIME (PST) 1014

TAPE: U01166 -325
LONG W 124 48.80
PASS NO. 27
STN: A2

DEPTH	PRESS	SAL	TEMP	SIGMA-T	OXYGEN
3.2	3.2	22.54	8.00	17.51	
4.9	4.9	27.48	9.82	21.12	
10.1	10.1	30.43	10.37	23.33	
14.9	15.0	30.80	10.26	23.63	
19.9	20.0	30.96	10.23	23.77	
24.9	24.9	31.05	10.20	23.84	
29.9	30.0	31.15	10.22	23.91	
34.9	35.0	31.21	10.23	23.96	
39.8	39.9	31.23	10.19	23.98	
44.9	45.1	31.27	10.19	24.02	
49.8	50.0	31.33	10.18	24.06	3.68
59.8	60.0	31.40	10.15	24.12	
69.8	70.0	31.43	10.14	24.15	
74.6	75.0	31.52	10.09	24.22	2.23
79.7	80.0	31.53	10.09	24.23	
89.5	89.9	31.72	9.94	24.40	
99.5	99.9	31.90	9.79	24.57	.88
109.5	110.0	31.93	9.75	24.60	
119.5	120.1	31.96	9.73	24.62	
125.4	126.0	31.98	9.70	24.64	.66
130.5	131.1	31.99	9.69	24.65	
138.4	139.0	32.04	9.64	24.70	

COASTAL ZONE OCEANOGRAPHY

CRUISE NO: 18 ALBERNI PROGRAM
LAT N 49 9.91
DATE 9/ 2/81
TIME (PST) 1057

TAPE: U01166 -326
LONG W 124 48.62
PASS NO. 29
STN: A1

DEPTH	PRESS	SAL	TEMP	SIGMA-T	OXYGEN
3.3	3.3	28.79	10.16	22.09	
5.0	5.0	29.46	10.37	22.57	
10.0	10.1	30.59	10.47	23.44	
14.9	14.9	30.88	10.36	23.68	
20.1	20.1	31.05	10.36	23.81	
24.9	25.0	31.12	10.36	23.87	
29.8	29.9	31.22	10.39	23.94	
34.9	35.0	31.28	10.38	23.99	
40.0	40.1	31.31	10.32	24.02	
44.9	45.0	31.34	10.32	24.04	
49.8	50.0	31.37	10.33	24.07	2.03
59.8	60.1	31.42	10.27	24.12	
69.7	70.0	31.49	10.16	24.19	
74.7	75.1	31.56	10.08	24.26	2.28
79.7	80.1	31.68	10.00	24.36	
89.5	89.9	31.88	9.80	24.55	
99.5	100.0	31.95	9.73	24.62	.73
110.4	111.0	31.98	9.71	24.64	
113.5	114.1	31.98	9.70	24.64	

COASTAL ZONE OCEANOGRAPHY
CRUISE NO: 18 ALBERNI PROGRAM TAPE: U01166 -327
LAT N 49 12.16 LONG W 124 49.02
DATE 9/ 2/81 PASS NO. 31
TIME (PST) 1121 STN: A0

DEPTH	PRESS	SAL	TEMP	SIGMA-T
3.1	3.1	28.35	10.21	21.74
10.0	10.0	30.61	10.56	23.43
15.1	15.1	30.82	10.52	23.61
19.9	20.0	31.01	10.51	23.76
25.0	25.1	31.09	10.47	23.82
29.9	30.0	31.15	10.48	23.87
34.9	35.1	31.22	10.40	23.94
39.9	40.0	31.27	10.37	23.98
44.9	45.1	31.30	10.37	24.01
49.8	50.1	31.35	10.36	24.05
59.8	60.1	31.39	10.31	24.08
61.5	61.8	31.39	10.30	24.09

CRUISE NO: 18 ALBERNI PROGRAM TAPE: U01166 -328
LAT N 48 58.78 LONG W 124 57.80
DATE 9/ 2/81 PASS NO. 33
TIME (PST) 1714 STN: A6

DEPTH	PRESS	SAL	TEMP	SIGMA-T
3.3	3.3	29.52	9.75	22.71
4.9	5.0	29.52	9.80	22.71
10.0	10.0	30.36	9.99	23.33
14.8	14.9	31.09	10.12	23.88
19.9	20.0	31.20	10.11	23.97
25.0	25.1	31.26	10.10	24.02
29.9	30.0	31.31	10.07	24.07
34.8	35.0	31.38	10.04	24.12
39.8	40.0	31.47	10.02	24.20
44.7	44.9	31.54	10.02	24.25
49.8	50.0	31.59	10.00	24.30
59.7	60.0	31.75	9.98	24.42
69.6	70.0	31.87	9.96	24.52
79.6	79.9	31.97	9.88	24.61
89.6	90.0	32.01	9.84	24.65
99.5	100.0	32.08	9.75	24.72
110.4	110.9	32.27	9.52	24.91
120.5	121.1	32.41	9.32	25.05
130.4	131.0	32.56	9.07	25.20
140.2	141.0	32.72	8.79	25.37
150.3	151.1	32.74	8.75	25.39
160.2	161.1	32.78	8.68	25.44
170.1	171.1	32.81	8.61	25.47
180.0	181.0	32.82	8.59	25.47
186.7	187.8	32.83	8.57	25.49

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COASTAL ZONE OCEANOGRAPHY
CRUISE NO:    18 ALBERNI PROGRAM              TAPE: U01166    -383
LAT  N 48 44.80                               LONG W 125 21.60
DATE 11/ 2/81                                 PASS NO.145
TIME (PST) 1453                               STN: A15

 DEPTH     PRESS      SAL       TEMP    SIGMA-T
   3.6       3.6     31.45      8.62     24.40
   5.0       5.0     31.54      8.63     24.47
   9.9      10.0     31.59      8.63     24.51
  14.9      15.0     31.59      8.63     24.51
  19.9      20.0     31.61      8.69     24.51
  24.9      25.0     31.61      8.69     24.52
  29.9      30.1     31.61      8.69     24.52
  34.8      34.9     31.61      8.68     24.52
  39.9      40.1     31.61      8.68     24.52
  44.7      45.0     31.61      8.68     24.52
  49.8      50.0     31.61      8.67     24.52
  59.7      60.0     31.64      8.71     24.53
  69.6      70.0     31.66      8.75     24.54
  79.5      79.9     31.69      8.79     24.56
  89.6      90.0     31.88      9.28     24.64
 100.5     101.1     32.33      9.99     24.87
 102.3     102.8     32.33     10.00     24.87

CRUISE NO:    18 ALBERNI PROGRAM              TAPE: U01166    -384
LAT  N 49 12.16                               LONG W 124 49.02
DATE 11/ 2/81                                 PASS NO.147
TIME (PST) 1814                               STN: A0

 DEPTH     PRESS      SAL       TEMP    SIGMA-T

   4.9       4.9     28.18      9.90     21.65
  10.0      10.0     30.82     10.50     23.61
  15.0      15.0     31.12     10.44     23.85
  19.9      20.0     31.18     10.41     23.90
  24.9      25.0     31.25     10.37     23.97
  29.9      30.0     31.28     10.36     23.99
  35.0      35.1     31.32     10.34     24.02
  39.8      40.0     31.36     10.31     24.06
  44.8      45.0     31.38     10.31     24.08
  49.8      50.0     31.41     10.28     24.10
  53.8      54.1     31.43     10.27     24.12
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COASTAL ZONE OCEANOGRAPHY
CRUISE NO: 18 ALBERNI PROGRAM
TAPE: U01166 -385
LAT N 49 9.91
LONG W 124 48.62
DATE 11/ 2/81
PASS NO.149
TIME (PST) 1840
STN: A1

DEPTH	PRESS	SAL	TEMP	SIGMA-T	OXYGEN
3.3	3.3	29.48	10.25	22.60	
5.0	5.0	29.64	10.25	22.73	
10.0	10.0	29.88	10.24	22.92	
14.9	15.0	31.00	10.33	23.78	
19.9	20.0	31.10	10.35	23.85	
24.8	24.9	31.17	10.36	23.91	
29.9	30.0	31.25	10.35	23.97	
34.9	35.1	31.28	10.33	23.99	
39.8	40.0	31.31	10.30	24.03	
44.8	45.0	31.40	10.28	24.10	
49.8	50.0	31.42	10.26	24.12	2.08
59.8	60.0	31.47	10.19	24.17	
69.7	70.0	31.53	10.08	24.24	
74.7	75.0	31.58	10.05	24.28	2.39
79.7	80.1	31.64	10.00	24.33	
89.6	90.0	31.83	9.87	24.50	
99.5	100.0	31.91	9.77	24.58	.74
101.2	101.6	31.93	9.75	24.60	

CRUISE NO: 18 ALBERNI PROGRAM
TAPE: U01166 -386
LAT N 49 7.15
LONG W 124 48.80
DATE 11/ 2/81
PASS NO.151
TIME (PST) 1920
STN: A2

DEPTH	PRESS	SAL	TEMP	SIGMA-T	OXYGEN
3.4	3.4	22.84	7.06	17.85	
4.9	4.9	26.58	9.24	20.50	
10.0	10.0	30.81	10.28	23.64	
15.0	15.0	30.98	10.25	23.77	
19.9	20.0	31.09	10.19	23.87	
24.9	25.0	31.16	10.17	23.93	
29.8	29.9	31.22	10.17	23.98	
34.9	35.1	31.25	10.17	24.00	
39.9	40.0	31.32	10.15	24.06	
44.9	45.1	31.36	10.15	24.09	
49.8	50.0	31.40	10.15	24.12	3.87
59.8	60.1	31.46	10.13	24.17	
69.6	69.9	31.55	10.10	24.24	
74.7	75.0	31.62	10.05	24.31	3.07
79.6	80.0	31.64	10.03	24.33	
89.6	90.0	31.83	9.85	24.50	
99.5	100.0	31.94	9.75	24.60	.75
110.5	111.0	31.96	9.72	24.63	
120.4	121.0	31.99	9.70	24.65	
125.5	126.1	32.01	9.67	24.68	.58
128.0	128.7	32.03	9.65	24.69	

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COASTAL ZONE OCEANOGRAPHY
CRUISE NO:    18 ALBERNI PROGRAM              TAPE: U01166    -387
LAT  N 49  5.50                               LONG W 124 49.50
DATE 11/ 2/81                                 PASS NO.153
TIME (PST) 2000                               STN: A3

 DEPTH     PRESS      SAL        TEMP    SIGMA-T
   3.7       3.7                 7.42
   5.0       5.0     24.39       7.99     18.95
  10.0      10.0     30.04      10.12     23.07
  15.0      15.0     31.14      10.16     23.91
  19.9      20.0     31.25      10.13     24.01
  24.9      24.9     31.32      10.11     24.06
  29.9      30.0     31.41      10.07     24.14
  35.0      35.1     31.46      10.08     24.18
  39.9      40.0     31.52      10.10     24.22
  44.8      45.0     31.59      10.10     24.28
  49.8      50.0     31.68      10.09     24.35
  59.8      60.1     31.73      10.08     24.39
  69.7      70.0     31.76      10.08     24.42
  79.6      80.0     31.77      10.07     24.42
  89.6      90.0     31.79      10.07     24.43
  99.6     100.0     31.79      10.07     24.43
  99.6     100.0     31.79      10.07     24.43
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COASTAL ZONE OCEANOGRAPHY

CRUISE NO: 18 ALBERNI PROGRAM
LAT N 49 2.70
DATE 11/ 2/81
TIME (PST) 2022

TAPE: UC1166 -388
LONG W 124 51.11
PASS NO.155
STN: A4

DEPTH	PRESS	SAL	TEMP	SIGMA-T
3.7	3.7	29.13	8.66	22.58
4.9	4.9	29.85	9.29	23.05
10.0	10.0	30.97	10.25	23.77
15.0	15.0	31.14	10.16	23.92
19.9	20.0	31.25	10.12	24.01
24.9	25.0	31.33	10.09	24.08
29.9	30.0	31.40	10.07	24.13
34.9	35.0	31.48	10.04	24.20
39.8	40.0	31.52	10.03	24.23
44.9	45.1	31.60	10.02	24.30
49.7	49.9	31.63	10.01	24.32
59.7	60.0	31.73	10.00	24.40
69.7	70.0	31.85	9.95	24.50
79.6	80.0	31.97	9.99	24.59
89.6	90.0	32.06	9.93	24.67
100.5	101.0	32.18	9.74	24.80
110.3	110.9	32.28	9.57	24.90
120.4	121.0	32.40	9.34	25.03
130.3	131.0	32.61	8.96	25.26
140.3	141.0	32.69	8.83	25.34
150.1	151.0	32.73	8.78	25.37
160.2	161.1	32.77	8.70	25.42
170.1	171.0	32.77	8.69	25.42
180.1	181.1	32.79	8.64	25.44
189.9	191.0	32.81	8.60	25.47
199.9	201.0	32.85	8.52	25.51
224.6	225.9	32.88	8.47	25.54
249.5	251.0	32.89	8.44	25.55
275.3	277.0	32.90	8.42	25.56
283.0	284.8	32.91	8.41	25.57

COASTAL ZONE OCEANOGRAPHY
CRUISE NO: 18 ALBERNI PROGRAM
LAT N 48 59.58
DATE 11/ 2/81
TIME (PST) 2101

TAPE: U01166 -389
LONG W 124 53.38
PASS NO.157
STN: A5

DEPTH	PRESS	SAL	TEMP	SIGMA-T	OXYGEN
3.3	3.3	27.50	7.98	21.40	
4.9	4.9	27.58	8.11	21.44	
10.0	10.0	28.26	8.63	21.90	
15.0	15.0	31.16	10.14	23.94	
20.0	20.1	31.27	10.06	24.03	
24.9	25.0	31.34	10.07	24.08	
29.9	30.0	31.40	10.01	24.14	
35.0	35.1	31.48	10.00	24.20	
39.9	40.0	31.52	9.97	24.24	
44.8	45.0	31.55	9.98	24.26	
49.8	50.0	31.61	9.99	24.31	5.22
59.7	59.9	31.76	9.98	24.43	
69.7	70.0	31.86	9.93	24.51	
74.6	74.9	31.89	9.92	24.54	3.87
79.7	80.1	31.95	9.89	24.59	
90.5	90.9	32.10	9.78	24.72	
99.6	100.0	32.19	9.67	24.81	2.99
110.4	110.9	32.41	9.34	25.04	
120.3	120.9	32.55	9.09	25.19	
125.4	126.0	32.62	8.98	25.26	1.91
130.3	131.0	32.65	8.92	25.29	
140.3	141.0	32.68	8.87	25.32	
150.2	151.0	32.71	8.82	25.36	1.70
160.1	161.0	32.74	8.74	25.39	
170.1	171.0	32.76	8.71	25.41	
175.0	175.9	32.78	8.68	25.43	1.55
180.0	180.9	32.80	8.64	25.45	
189.9	190.9	32.83	8.58	25.48	
199.9	201.0	32.87	8.49	25.53	1.41
224.8	226.1	32.89	8.45	25.55	
250.5	252.0	32.89	8.44	25.56	1.38
275.3	277.0	32.90	8.43	25.56	
300.2	302.1	32.91	8.43	25.57	1.36
325.0	327.0	32.90	8.43	25.57	
341.5	343.7	32.90	8.44	25.56	

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COASTAL ZONE OCEANOGRAPHY

CRUISE NO:   18 ALBERNI PROGRAM          TAPE: U01166   -390
LAT  N 48 58.78                          LONG W 124 57.80
DATE 11/ 2/81                            PASS NO.159
TIME (PST) 2201                          STN: A6

 DEPTH     PRESS      SAL       TEMP    SIGMA-T
   5.2       5.3     29.51      9.02     22.82
  10.0      10.1     29.85      9.14     23.07
  15.0      15.0     31.13      9.88     23.95
  19.9      20.0     31.29      9.93     24.07
  24.9      25.0     31.35      9.91     24.12
  30.0      30.1     31.40      9.87     24.17
  34.9      35.0     31.48      9.88     24.22
  39.8      40.0     31.55      9.93     24.27
  44.8      45.0     31.61      9.93     24.32
  49.8      50.0     31.65      9.86     24.36
  59.8      60.0     31.79      9.96     24.46
  69.8      70.1     31.92      9.92     24.56
  79.6      80.0     31.99      9.85     24.63
  89.6      90.0     32.06      9.77     24.70
 100.5     101.0     32.23      9.58     24.86
 109.5     110.1     32.34      9.43     24.97
 120.4     121.0     32.60      8.99     25.25
 130.3     131.0     32.70      8.82     25.34
 140.2     140.9     32.71      8.81     25.35
 150.1     150.9     32.74      8.76     25.39
 160.2     161.0     32.77      8.70     25.42
 170.1     171.0     32.78      8.67     25.43
 180.0     181.0     32.79      8.65     25.44
 184.5     185.6     32.79      8.65     25.45
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COASTAL ZONE OCEANOGRAPHY
CRUISE NO: 18 ALBERNI PROGRAM
LAT N 48 57.02
DATE 11/ 2/81
TIME (PST) 2232

TAPE: U01166 -391
LONG W 125 1.30
PASS NO.161
STN: A7

DEPTH	PRESS	SAL	TEMP	SIGMA-T	OXYGEN
3.5	3.5	30.02	9.34	23.17	
4.9	4.9	30.13	9.31	23.26	
10.0	10.0	30.81	9.64	23.74	
15.0	15.1	30.85	9.65	23.77	
19.9	20.0	31.07	9.79	23.92	
24.8	25.0	31.26	9.97	24.04	
29.9	30.0	31.36	9.95	24.12	
34.9	35.1	31.40	9.90	24.16	
39.9	40.1	31.41	9.86	24.17	
44.9	45.1	31.43	9.83	24.20	
49.8	50.0	31.47	9.82	24.23	5.43
59.7	60.0	31.80	9.84	24.48	
69.8	70.1	31.94	9.90	24.58	
74.6	75.0	32.00	9.89	24.63	4.22
79.6	79.9	32.02	9.86	24.65	
89.5	90.0	32.07	9.83	24.69	
100.5	101.0	32.17	9.70	24.[illegible]9	2.69
110.4	110.9	32.40	9.36	25.03	
120.5	121.2	32.59	9.05	25.23	
125.3	126.0	32.66	8.94	25.30	1.64
130.3	131.0	32.68	8.90	25.32	
140.2	141.0	32.71	8.84	25.35	
150.2	151.0	32.74	8.78	25.39	1.34
160.2	161.0	32.77	8.72	25.42	
170.2	171.1	32.79	8.68	25.44	
175.1	176.1	32.79	8.67	25.44	1.30
180.1	181.1	32.79	8.66	25.44	
189.9	191.0	32.80	8.65	25.45	
199.9	201.1	32.80	8.65	25.45	1.34
224.7	226.0	32.81	8.64	25.46	
232.7	234.0	32.80	8.64	25.46	

COASTAL ZONE OCEANOGRAPHY

CRUISE NO: 18 ALBERNI PROGRAM	TAPE: UD1166 -392
LAT N 48 57.72	LONG W 125 4.48
DATE 11/ 2/81	PASS NO.163
TIME (PST) 2325	STN: A11

DEPTH	PRESS	SAL	TEMP	SIGMA-T
3.6	3.7	30.17	9.03	23.34
4.9	5.0	30.16	9.04	23.33
10.0	10.1	30.25	9.17	23.38
15.0	15.1	30.82	9.51	23.77
19.9	20.0	31.18	9.66	24.03
24.9	25.0	31.22	9.68	24.06
29.9	30.0	31.25	9.69	24.08
34.9	35.0	31.28	9.64	24.11
39.8	39.9	31.38	9.82	24.16
44.8	45.0	31.49	9.69	24.26
49.8	50.0	31.55	9.58	24.33
59.8	60.0	31.67	9.64	24.41
69.7	70.0	31.81	9.78	24.50
79.6	80.0	31.98	10.03	24.59
89.6	90.0	32.03	9.94	24.64
93.6	94.0	32.06	9.88	24.68

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COASTAL ZONE OCEANOGRAPHY
CRUISE NO:    18 ALBERNI PROGRAM                    TAPE: U01166    -393
LAT  N 48 58.20                                     LONG W 125  7.80
DATE 11/ 2/81                                       PASS NO.165
TIME (PST) 2357                                     STN: A12

 DEPTH      PRESS       SAL        TEMP     SIGMA-T    OXYGEN

   4.9        4.9      29.68       8.67      23.01
   9.9       10.0      30.19       9.05      23.35
  14.9       15.0      30.51       9.01      23.60
  20.0       20.1      30.76       9.23      23.76
  24.8       24.9      31.17       9.96      23.97
  29.9       30.0      31.32       9.88      24.10
  34.9       35.0      31.40       9.91      24.16
  39.9       40.1      31.51       9.92      24.25
  44.8       45.0      31.54       9.88      24.28
  49.8       50.1      31.60      10.06      24.29      5.15
  59.7       60.0      31.78      10.02      24.44
  69.7       70.0      31.89       9.99      24.53
  74.7       75.0      31.92      10.00      24.55      4.60
  79.6       80.0      31.96      10.00      24.58
  89.6       90.0      32.05      10.10      24.64      4.12
  93.2       93.7      32.11       9.99      24.70
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CRUISE NO:    18 ALBERNI PROGRAM                    TAPE: U01166    -394
LAT  N 48 54.15                                     LONG W 125 12.95
DATE 12/ 2/81                                       PASS NO.167
TIME (PST) 0039                                     STN: A13

 DEPTH      PRESS       SAL        TEMP     SIGMA-T
   3.3        3.3      29.94       8.47      23.24
   4.9        4.9      29.94       8.47      23.24
  10.0       10.0      30.09       8.52      23.35
  14.9       15.0      30.54       8.75      23.67
  19.9       20.0      30.70       9.00      23.76
  24.9       25.0      30.81       9.28      23.80
  30.0       30.1      31.20       9.78      24.02
  34.9       35.0      31.27       9.77      24.08
  39.7       39.9      31.42       9.89      24.18
  44.8       45.0      31.41       9.60      24.22
  49.7       49.9      31.54       9.63      24.32
  59.5       59.8      31.64       9.61      24.39
  69.7       70.0      31.90      10.04      24.53
  79.7       80.1      31.91       9.85      24.57
  89.6       90.0      32.03      10.03      24.63
  99.5      100.0      32.12       9.88      24.73
 107.6      108.1      32.17       9.87      24.76
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COASTAL ZONE OCEANOGRAPHY
CRUISE NO:    18 ALBERNI PROGRAM            TAPE: U01166    -395
LAT  N 48 50.05                             LONG W 125 15.80
DATE 12/ 2/81                               PASS NO.169
TIME (PST) 0110                             STN: A14

 DEPTH     PRESS      SAL        TEMP     SIGMA-T    OXYGEN
   3.7       3.7     30.82       8.66      23.90
   5.0       5.0     30.83       8.65      23.91
   9.9       9.9     30.83       8.64      23.91
  15.0      15.1     30.82       8.59      23.91
  19.8      19.9     30.82       8.56      23.92
  25.0      25.1     30.80       8.60      23.90
  30.0      30.1     31.01       9.14      23.98
  34.7      34.9     31.16       8.98      24.12
  39.8      40.0     31.24       8.78      24.21
  44.9      45.1     31.28       8.80      24.24
  49.8      50.0     31.42       8.95      24.32     5.60
  59.7      60.0     31.58       9.15      24.42
  69.8      70.1     31.68       9.28      24.48
  74.7      75.1     31.74       9.32      24.52     5.65
  79.6      79.9     31.76       9.39      24.52
  89.7      90.2     31.87       9.50      24.59     5.65
  99.1      99.6     32.04       9.71      24.69

CRUISE NO:    18 ALBERNI PROGRAM            TAPE: U01166    -396
LAT  N 48 44.80                             LONG W 125 21.60
DATE 12/ 2/81                               PASS NO.171
TIME (PST) 0205                             STN: A15

 DEPTH     PRESS      SAL        TEMP     SIGMA-T
   4.0       4.0     31.23       8.21      24.28
   5.0       5.0     31.22       8.22      24.28
  10.1      10.1     31.23       8.22      24.29
  14.8      14.9     31.23       8.22      24.29
  19.9      20.0     31.25       8.25      24.30
  24.9      25.1     31.32       8.30      24.34
  29.7      29.9     31.35       8.35      24.36
  34.8      35.0     31.49       8.52      24.45
  39.7      39.9     31.56       8.61      24.49
  44.8      45.1     31.58       8.62      24.50
  49.8      50.0     31.59       8.63      24.51
  59.7      60.0     31.66       8.77      24.54
  69.6      70.0     31.72       8.87      24.57
  79.5      79.9     31.85       9.20      24.62
  89.6      90.1     32.00       9.43      24.71
  98.6      99.1     32.13       9.58      24.78
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COASTAL ZONE OCEANOGRAPHY
CRUISE NO:    18 ALBERNI PROGRAM            TAPE: U01166    -397
LAT   N 48 48.20                            LONG W 125 14.40
DATE 12/ 2/81                               PASS NO.173
TIME (PST) 0245                             STN: A10

 DEPTH      PRESS       SAL        TEMP    SIGMA-T
   3.9        4.0      30.85       8.44     23.95
   5.0        5.0      30.86       8.44     23.96
  10.0       10.0      30.85       8.44     23.96
  14.9       15.0      30.86       8.43     23.97
  19.8       19.9      30.91       8.38     24.01
  24.8       24.9      31.21       8.67     24.20
  29.9       30.0      31.39       8.91     24.31
  34.8       35.0      31.48       8.94     24.37
  39.8       40.0      31.49       8.91     24.39
  41.4       41.6      31.50       8.89     24.40

CRUISE NO:    18 ALBERNI PROGRAM            TAPE: U01166    -398
LAT   N 48 51.50                            LONG W 125  8.10
DATE 12/ 2/81                               PASS NO.175
TIME (PST) 0328                             STN: A9

 DEPTH      PRESS       SAL        TEMP    SIGMA-T   OXYGEN
   2.5        2.6      30.83       8.76     23.89
   5.0        5.0      30.83       8.81     23.89
  10.0       10.0      30.91       8.71     23.96
  15.0       15.1      30.89       8.69     23.95
  20.0       20.0      30.89       8.68     23.95
  25.0       25.1      31.03       8.76     24.05
  29.7       29.9      31.14       8.85     24.12
  35.1       35.2      31.21       9.04     24.14
  39.9       40.1      31.38       9.79     24.16
  44.7       44.9      31.50      10.01     24.22
  49.7       49.9      31.55      10.03     24.26     4.78
  59.8       60.0      31.78      10.11     24.42
  69.8       70.1      31.95       9.99     24.57
  74.6       75.0      31.96       9.98     24.59     3.82
  79.6       79.9      31.99       9.96     24.61
  89.6       90.1      32.07       9.87     24.69
 100.3      100.9      32.12       9.83     24.73     3.12
 110.3      110.8      32.16       9.76     24.78
 120.3      120.9      32.33       9.52     24.94
 125.4      126.0      32.54       9.19     25.16     2.34
 130.2      130.9      32.57       9.12     25.20
 136.9      137.6      32.60       9.08     25.23
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COASTAL ZONE OCEANOGRAPHY
CRUISE NO:   18 ALBERNI PROGRAM          TAPE: U01166   -399
LAT  N 48 53.78                          LONG W 125  3.05
DATE 12/ 2/81                            PASS NO.177
TIME (PST) 0424                          STN: A8

 DEPTH      PRESS       SAL        TEMP    SIGMA-T
   3.1        3.1      11.58       9.30      8.81
   5.0        5.0      30.49       9.29     23.55
  10.0       10.0      30.57       9.37     23.59
  15.0       15.0      30.88       9.30     23.85
  20.0       20.1      31.11       9.47     24.00
  25.0       25.0      31.10       9.30     24.03
  29.9       29.9      31.20       9.67     24.04
  34.9       35.0      31.44      10.08     24.16
  39.9       40.0      31.48      10.06     24.19
  45.0       45.1      31.55      10.02     24.26
  49.8       50.0      31.62      10.01     24.32
  59.7       59.9      31.79       9.97     24.45
  69.8       70.1      31.87       9.95     24.52
  79.6       79.9      31.98       9.89     24.62
  89.6       90.0      32.04       9.87     24.67
  99.6      100.1      32.21       9.72     24.82
 110.4      110.9      32.33       9.52     24.95
 120.4      121.0      32.56       9.14     25.19
 130.4      131.0      32.67       8.94     25.30
 140.2      140.9      32.71       8.86     25.35
 150.4      151.2      32.72       8.82     25.37
 159.1      159.9      32.74       8.80     25.38
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COASTAL ZONE OCEANOGRAPHY

CRUISE NO: 18 ALBERNI PROGRAM
TAPE: U01166 -400
LAT N 48 57.02
LONG W 125 1.30
DATE 12/ 2/81
PASS NO.179
TIME (PST) 0504
STN: A7

DEPTH	PRESS	SAL	TEMP	SIGMA-T
5.0	5.0	29.36	8.89	22.73
10.0	10.0	29.99	9.12	23.18
14.9	15.0	30.36	9.40	23.43
19.9	20.0	31.04	9.71	23.91
24.9	25.0	31.16	9.70	24.01
29.9	30.0	31.24	9.67	24.07
34.9	35.0	31.34	9.79	24.13
39.8	39.9	31.36	9.76	24.15
44.8	45.0	31.51	9.66	24.28
49.8	50.1	31.59	9.65	24.35
59.7	60.0	31.61	9.66	24.37
69.7	70.0	31.81	9.79	24.50
79.6	80.0	31.95	9.95	24.58
89.5	89.9	32.02	9.91	24.65
99.6	100.1	32.19	9.71	24.80
110.4	111.0	32.29	9.55	24.91
120.5	121.1	32.45	9.28	25.08
130.1	130.8	32.61	9.02	25.25
140.4	141.1	32.69	8.88	25.33
150.3	151.1	32.74	8.78	25.39
160.1	161.0	32.77	8.73	25.41
170.1	171.0	32.79	8.67	25.44
180.1	181.1	32.79	8.66	25.44
189.9	191.0	32.80	8.66	25.45
199.9	201.1	32.80	8.65	25.45
224.7	226.0	32.80	8.65	25.45
232.6	234.0	32.80	8.65	25.45

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COASTAL ZONE OCEANOGRAPHY
CRUISE NO:   19 ALBERNI PROGRAM               TAPE: U01166   -401
LAT  N 48 53.78                               LONG w 125  3.05
DATE 11/ 3/81                                 PASS NO. 21
TIME (PST) 0603                               STN: A8

 DEPTH      PRESS       SAL        TEMP    SIGMA-T
   3.5        3.5      26.76       9.60     20.59
   5.0        5.0      27.37       9.63     21.06
   9.9        9.9      29.41       9.55     22.67
  15.0       15.0      30.12       9.20     23.27
  19.9       20.0      30.36       9.15     23.47
  24.9       25.0      30.46       9.15     23.54
  30.0       30.1      30.51       9.21     23.57
  34.9       35.0      30.64       9.36     23.65
  39.9       40.1      30.78       9.44     23.75
  44.8       44.9      30.93       9.48     23.86
  49.9       50.1      31.18       9.61     24.03
  59.8       60.0      31.37       9.71     24.17
  69.7       70.0      31.71       9.82     24.41
  79.7       80.0      31.87       9.80     24.55
  89.7       90.1      31.96       9.78     24.61
  99.5      100.0      32.01       9.76     24.66
 110.4      111.0      32.16       9.64     24.79
 120.4      121.0      32.30       9.46     24.94
 130.3      130.9      32.61       9.01     25.24
 140.3      141.0      32.64       8.95     25.28
 150.3      151.1      32.66       8.91     25.31
 160.0      160.8      32.67       8.89     25.32
 167.1      168.0      32.69       8.87     25.33
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COASTAL ZONE OCEANOGRAPHY

CRUISE NO:   19 ALBERNI PROGRAM                TAPE: UD1166   -402
LAT  N 48 51.50                                LONG W 125  8.10
DATE 11/ 3/81                                  PASS NO. 23
TIME (PST) 0645                                STN: A9

 DEPTH      PRESS      SAL       TEMP     SIGMA-T    OXYGEN
   3.6        3.7     29.38      9.29      22.68
   5.0        5.0     29.46      9.28      22.74
   9.9        9.9     29.89      9.22      23.09
  14.9       15.0     30.09      9.12      23.26
  20.0       20.1     30.29      9.04      23.43
  24.9       25.0     30.46      9.06      23.56
  29.9       30.0     30.71      9.18      23.74
  34.8       34.9     30.87      9.40      23.82
  39.9       40.0     30.97      9.49      23.89
  44.8       45.0     31.20      9.63      24.05
  49.8       50.0     31.34      9.72      24.14     5.15
  59.8       60.0     31.64      9.83      24.36
  69.7       70.0     31.82      9.83      24.50
  74.6       75.0     31.86      9.82      24.53     4.10
  79.5       79.9     31.86      9.82      24.54
  89.7       90.1     31.96      9.77      24.62
  99.5      100.0     32.06      9.70      24.71     2.81
 110.4      110.9     32.47      9.23      25.11
 115.4      116.0     32.53      9.16      25.16     1.50
 118.4      119.0     32.54      9.14      25.17
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COASTAL ZONE OCEANOGRAPHY
CRUISE NO:   19 ALBERNI PROGRAM           TAPE: U01166   -403
LAT  N 48 48.20                           LONG W 125 14.40
DATE 11/ 3/81                             PASS NO. 25
TIME (PST) 0738                           STN: A10

 DEPTH      PRESS       SAL        TEMP    SIGMA-T
   3.6        3.6      28.87       9.27     22.28
   5.1        5.1      29.26       9.28     22.59
  10.0       10.1      30.03       9.07     23.22
  15.5       15.5      30.40       9.03     23.51
  20.0       20.1      30.47       9.00     23.58
  25.0       25.1      30.63       8.94     23.71
  29.9       30.0      30.82       9.03     23.84
  34.8       35.0      31.03       8.98     24.01
  39.7       39.9      31.25       9.21     24.15
  39.7       39.9      31.25       9.21     24.15

CRUISE NO:   19 ALBERNI PROGRAM           TAPE: U01166   -404
LAT  N 48 44.80                           LONG W 125 21.60
DATE 11/ 3/81                             PASS NO. 27
TIME (PST) 0811                           STN: A15

 DEPTH      PRESS       SAL        TEMP    SIGMA-T
   3.4        3.4      30.13       8.85     23.33
   5.0        5.0      30.54       8.76     23.66
   9.9       10.0      30.79       8.66     23.88
  15.0       15.0      30.85       8.61     23.93
  20.0       20.1      30.86       8.62     23.94
  24.8       24.9      30.88       8.62     23.95
  29.8       30.0      30.90       8.61     23.97
  35.7       35.8      30.92       8.60     23.99
  39.9       40.1      30.98       8.61     24.03
  44.7       44.9      31.06       8.65     24.09
  50.0       50.2      31.08       8.65     24.10
  59.6       59.9      31.09       8.65     24.11
  69.6       69.9      31.61       9.12     24.45
  79.6       80.0      31.84       9.40     24.58
  89.6       90.0      32.20       9.86     24.79
  99.2       99.7      32.65       9.28     25.24
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COASTAL ZONE OCEANOGRAPHY
CRUISE NO: 19 ALBERNI PROGRAM — TAPE: U01166 -405
LAT N 48 50.05 — LONG W 125 15.80
DATE 11/ 3/81 — PASS NO. 29
TIME (PST) 0905 — STN: A14

DEPTH	PRESS	SAL	TEMP	SIGMA-T	OXYGEN
4.9	4.9	28.56	9.43	22.02	
10.1	10.1	29.18	9.51	22.49	
15.1	15.1	30.06	9.22	23.22	
19.9	19.9	30.24	8.92	23.41	
25.0	25.0	30.49	8.84	23.61	
29.9	30.0	30.73	9.13	23.76	
34.8	34.9	30.96	9.13	23.94	
40.4	40.6	31.08	9.15	24.03	
44.9	45.1	31.32	9.34	24.19	
49.7	49.9	31.41	9.39	24.25	5.69
59.6	59.9	31.72	9.62	24.46	
69.7	70.0	31.92	9.74	24.59	
74.6	75.0	31.99	9.81	24.63	5.64
79.6	80.0	32.05	9.87	24.67	
90.6	91.0	32.07	9.82	24.70	
99.6	100.0	32.27	9.95	24.83	

CRUISE NO: 19 ALBERNI PROGRAM — TAPE: U01166 -406
LAT N 48 54.15 — LONG W 125 12.95
DATE 11/ 3/81 — PASS NO. 31
TIME (PST) 0948 — STN: A13

DEPTH	PRESS	SAL	TEMP	SIGMA-T
3.2	3.2	27.80	9.57	21.41
5.0	5.0	28.28	9.45	21.80
9.9	9.9	29.86	9.30	23.06
15.0	15.1	30.21	9.19	23.34
20.0	20.0	30.48	9.42	23.52
24.8	24.9	30.64	9.42	23.64
29.9	30.1	30.70	9.26	23.71
34.9	35.0	30.89	9.37	23.85
39.8	40.0	31.01	9.31	23.95
44.7	44.9	31.15	9.42	24.04
49.7	49.9	31.28	9.52	24.13
59.8	60.0	31.72	9.77	24.43
69.8	70.1	31.89	9.85	24.55
79.7	80.1	32.07	9.98	24.67
89.5	90.0	32.16	10.05	24.73
100.4	100.9	32.23	10.07	24.78
103.3	103.8	32.24	10.07	24.79

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COASTAL ZONE OCEANOGRAPHY
CRUISE NO:   19 ALBERNI PROGRAM          TAPE: U01166   -407
LAT  N 48 58.20                          LONG W 125  7.80
DATE 11/ 3/81                            PASS NO. 33
TIME (PST) 1028                          STN: A12

 DEPTH     PRESS      SAL      TEMP   SIGMA-T   OXYGEN
   3.4       3.4     27.86     9.55    21.46

  10.0      10.0     27.97     9.53    21.54
  14.9      15.0     30.23     9.34    23.34
  20.0      20.1     30.40     9.01    23.52
  24.9      25.0     30.56     9.30    23.60
  29.8      29.9     30.76     9.37    23.75
  34.8      34.9     30.82     9.39    23.79
  39.9      40.1     30.99     9.44    23.92
  44.9      45.1     31.12     9.49    24.01
  49.7      49.9     31.25     9.56    24.10    5.36
  59.8      60.0     31.64     9.74    24.38
  69.8      70.1     31.85     9.82    24.53
  74.7      75.0     32.00     9.90    24.63    4.84
  79.6      79.9     32.06     9.97    24.67
  89.6      90.0     32.13     9.97    24.72    5.16
  96.5      97.0     32.22    10.09    24.77
CRUISE NO:   19 ALBERNI PROGRAM          TAPE: U01166   -408
LAT  N 48 57.72                          LONG W 125  4.48
DATE 11/ 3/81                            PASS NO. 35
TIME (PST) 1100                          STN: A11

 DEPTH     PRESS      SAL      TEMP   SIGMA-T
   3.2       3.2     27.51     9.57    21.18
   5.3       5.3     29.15     9.53    22.46
  10.0      10.0     29.97     9.49    23.11
  15.0      15.1     30.23     9.41    23.32
  19.9      20.0     30.53     9.29    23.58
  24.8      24.9     30.61     9.28    23.64
  29.8      30.0     30.75     9.27    23.75
  34.8      35.0     30.86     9.32    23.83
  39.8      40.0     31.10     9.47    23.99
  44.9      45.0     31.29     9.58    24.12
  49.8      50.0     31.42     9.64    24.22
  59.8      60.0     31.66     9.74    24.39
  69.6      69.9     31.85     9.81    24.52
  79.6      79.9     32.07     9.97    24.67
  90.2      90.6     32.15    10.01    24.72
  90.2      90.6     32.15    10.01    24.72
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COASTAL ZONE OCEANOGRAPHY
CRUISE NO:    19 ALBERNI PROGRAM          TAPE: U01166    -409
LAT  N 48 57.02                           LONG W 125  1.30
DATE 11/ 3/81                             PASS NO. 37
TIME (PST) 1123                           STN: A7

 DEPTH      PRESS       SAL        TEMP    SIGMA-T    OXYGEN
   3.4        3.4      22.84       9.48     17.55
   5.0        5.0      26.19       9.52     20.15
   9.9        9.9      29.66       9.53     22.87
  15.0       15.0      30.29       9.41     23.37
  20.0       20.1      30.46       9.37     23.51
  25.0       25.1      30.50       9.36     23.54
  29.9       30.0      30.63       9.31     23.65
  34.9       35.0      30.83       9.40     23.80
  39.9       40.0      30.98       9.50     23.90
  44.8       44.9      31.18       9.66     24.03
  49.8       50.0      31.34       9.80     24.13     4.80
  59.8       60.0      31.60       9.75     24.34
  69.7       70.0      31.83       9.80     24.51
  74.8       75.1      31.86       9.80     24.54     4.61
  79.7       80.0      31.91       9.81     24.57
  89.6       90.0      31.97       9.85     24.62
  99.6      100.1      32.10       9.86     24.72     4.54
 109.6      110.1      32.21       9.81     24.81
 120.5      121.1      32.36       9.48     24.98
 125.3      125.9      32.45       9.29     25.08     2.41
 130.4      131.0      32.55       9.11     25.18
 140.3      141.0      32.63       8.96     25.27
 150.2      150.9      32.67       8.89     25.31     1.45
 160.1      160.9      32.70       8.83     25.34
 170.2      171.1      32.72       8.79     25.37
 179.9      180.9      32.72       8.78     25.37
 190.1      191.2      32.72       8.78     25.37
 199.9      201.0      32.73       8.77     25.37     1.40
 224.8      226.0      32.73       8.76     25.38
 243.4      244.8      32.74       8.75     25.39
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COASTAL ZONE OCEANOGRAPHY

CRUISE NO: 19 ALBERNI PROGRAM
LAT N 48 58.78
DATE 11/ 3/81
TIME (PST) 1208

TAPE: U01166 -410
LONG W 124 57.80
PASS NO. 39
STN: A6

DEPTH	PRESS	SAL	TEMP	SIGMA-T
.6	.6	23.75	9.36	18.27
2.8	2.8	23.79	9.45	18.30
5.0	5.0	28.46	9.49	21.93
9.9	10.0	29.97	9.51	23.11
14.9	14.9	30.21	9.46	23.30
20.0	20.0	30.36	9.43	23.43
24.9	25.0	30.52	9.33	23.56
29.9	29.9	30.67	9.40	23.67
34.9	35.0	30.77	9.39	23.75
39.8	40.0	30.87	9.46	23.82
44.9	45.0	31.04	9.58	23.93
49.8	50.0	31.13	9.68	23.99
59.7	59.9	31.49	9.91	24.23
69.8	70.1	31.76	9.81	24.46
79.7	80.0	31.89	9.79	24.56
89.6	90.0	31.99	9.77	24.65
99.6	100.1	32.08	9.82	24.71
110.5	111.0	32.19	9.75	24.80
119.5	120.1	32.30	9.53	24.93
130.2	130.9	32.57	9.03	25.21
140.3	141.0	32.64	8.90	25.29
150.1	150.8	32.66	8.86	25.31
160.3	161.1	32.70	8.81	25.35
170.2	171.1	32.73	8.74	25.38
180.1	181.1	32.74	8.72	25.40
188.8	189.8	32.76	8.68	25.42

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COASTAL ZONE OCEANOGRAPHY
CRUISE NO:    19 ALBERNI PROGRAM                TAPE: U01166    -411
LAT  N 48 59.58                                 LONG W 124 53.38
DATE 11/ 3/81                                   PASS NO. 41
TIME (PST) 1248                                 STN: A5

 DEPTH      PRESS       SAL        TEMP     SIGMA-T    OXYGEN
   5.0        5.0     29.24        9.45     22.54
  10.0       10.0     30.13        9.46     23.24
  15.0       15.1     30.28        9.45     23.36
  19.9       19.9     30.42        9.44     23.47
  24.8       24.9     30.65        9.45     23.65
  29.9       30.0     30.81        9.47     23.76
  35.0       35.1     30.95        9.58     23.86
  39.8       39.9     31.11        9.76     23.95
  45.0       45.1     31.24        9.93     24.03
  49.8       50.0     31.43        9.99     24.17      4.12
  59.7       59.9     31.62        9.91     24.33
  69.8       70.1     31.80        9.85     24.48
  74.7       75.0     31.86        9.83     24.53      4.05
  79.5       79.9     31.88        9.83     24.55
  89.6       90.0     31.97        9.78     24.62
  99.6      100.1     32.04        9.73     24.69      3.77
 110.4      110.9     32.13        9.67     24.76
 119.5      120.1     32.18        9.59     24.82
 125.4      126.1     32.25        9.51     24.89      2.94
 130.4      131.0     32.47        9.21     25.10
 140.2      140.9     32.64        8.90     25.29
 150.2      151.0     32.68        8.83     25.33      1.85
 160.3      161.1     32.71        8.78     25.36
 170.2      171.1     32.73        8.74     25.39
 180.1      181.0     32.76        8.70     25.41
 190.1      191.1     32.76        8.68     25.42
 200.0      201.1     32.76        8.68     25.42      1.52
 224.7      225.9     32.82        8.59     25.48
 249.5      250.9     32.83        8.57     25.49      1.47
 275.5      277.1     32.83        8.56     25.49
 290.2      292.0     32.84        8.55     25.50      1.49
 296.1      297.8     32.84        8.56     25.50
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COASTAL ZONE OCEANOGRAPHY

CRUISE NO: 19 ALBERNI PROGRAM
LAT N 49 2.70
DATE 11/ 3/81
TIME (PST) 1351

TAPE: U01166 -412
LONG W 124 51.11
PASS NO. 43
STN: A4

DEPTH	PRESS	SAL	TEMP	SIGMA-T
2.8	2.8	23.42	9.61	17.98
5.0	5.0	27.39	9.49	21.10
10.2	10.2	29.99	9.47	23.13
14.9	15.0	30.28	9.51	23.35
19.9	20.0	30.53	9.57	23.53
25.0	25.1	30.67	9.56	23.64
29.8	29.9	30.86	9.66	23.78
35.0	35.1	30.98	9.77	23.86
40.0	40.1	31.13	9.88	23.96
44.9	45.0	31.22	9.90	24.02
49.9	50.1	31.37	9.93	24.13
59.8	60.0	31.61	9.95	24.31
69.8	70.1	31.88	9.95	24.53
79.8	80.1	31.99	9.91	24.62
89.6	90.0	32.07	9.84	24.69
99.6	100.0	32.18	9.69	24.81
110.4	111.0	32.31	9.48	24.94
119.6	120.1	32.50	9.16	25.14
130.4	131.1	32.61	8.96	25.26
140.4	141.1	32.67	8.86	25.32
150.3	151.1	32.69	8.83	25.34
160.2	161.1	32.71	8.79	25.36
170.1	171.0	32.73	8.76	25.38
180.0	181.0	32.75	8.71	25.40
189.9	190.9	32.78	8.65	25.44
199.9	201.0	32.80	8.61	25.46
205.9	207.0	32.82	8.57	25.48

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COASTAL ZONE OCEANOGRAPHY
CRUISE NO:    19 ALBERNI PROGRAM                  TAPE: U01166    -413
LAT  N 49  5.50                                   LONG W 124 49.50
DATE 11/ 3/81                                     PASS NO. 45
TIME (PST) 1423                                   STN: A3

  DEPTH      PRESS       SAL        TEMP    SIGMA-T
    3.0        3.0      14.77       9.75     11.24
    5.0        5.0      27.77       9.52     21.39
   10.1       10.1      30.09       9.53     23.19
   15.0       15.0      30.38       9.56     23.42
   19.9       19.9      30.54       9.59     23.54
   25.0       25.1      30.71       9.67     23.66
   29.8       29.9      30.80       9.73     23.72
   35.0       35.1      30.92       9.79     23.81
   40.0       40.1      31.19       9.88     24.00
   44.9       45.0      31.22       9.89     24.02
   49.8       49.9      31.31       9.91     24.09
   59.8       60.0      31.39       9.93     24.15
   69.8       70.1      31.50       9.95     24.23
   79.7       80.0      31.56       9.96     24.28
   89.6       89.9      31.65       9.96     24.35
   99.6      100.0      31.65       9.96     24.35
  110.5      111.0      31.65       9.97     24.35
  118.6      119.1      31.65       9.97     24.35
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COASTAL ZONE OCEANOGRAPHY

CRUISE NO:    19 ALBERNI PROGRAM              TAPE: U01166    -414
LAT   N 49   7.15                             LONG W 124 48.80
DATE 11/ 3/81                                 PASS NO. 47
TIME (PST) 1444                               STN: A2

 DEPTH      PRESS       SAL        TEMP     SIGMA-T    OXYGEN
    .2         .2      11.86       9.78       8.97
   3.6        3.6      12.56       9.36       9.56
   4.9        4.9      25.17       9.40      19.38
   9.9        9.9      29.68       9.52      22.88
  15.1       15.1      30.09       9.57      23.19
  20.0       20.0      30.12       9.57      23.21
  24.9       25.0      30.33       9.62      23.37
  29.9       30.0      30.72       9.73      23.66
  35.0       35.1      30.98       9.81      23.84
  40.0       40.1      31.03       9.83      23.88
  44.8       44.9      31.14       9.87      23.96
  49.9       50.0      31.17       9.88      23.98     3.77
  59.9       60.1      31.22       9.91      24.02
  69.8       70.0      31.32       9.96      24.09
  74.8       75.1      31.41      10.12      24.13     2.71
  79.6       79.9      31.43       9.96      24.17
  89.7       90.1      31.57       9.93      24.29
  99.6      100.0      31.77       9.89      24.45     1.45
 109.5      109.9      31.80       9.87      24.48
 119.6      120.1      31.84       9.83      24.51
 124.5      125.0      31.86       9.81      24.53     1.10
 130.5      131.0      31.87       9.80      24.55
 140.3      140.9      31.88       9.79      24.56
 142.3      143.0      31.88       9.79      24.56
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COASTAL ZONE OCEANOGRAPHY
CRUISE NO: 19 ALBERNI PROGRAM
LAT N 49 9.91
DATE 11/ 3/81
TIME (PST) 1531

TAPE: U01166 -415
LONG W 124 48.62
PASS NO. 49
STN: A1

DEPTH	PRESS	SAL	TEMP	SIGMA-T	OXYGEN
3.2	3.2	20.14	9.48	15.45	
5.1	5.1	25.36	9.46	19.52	
10.0	10.0	29.96	9.58	23.09	
15.0	15.0	30.28	9.65	23.33	
20.0	20.0	30.54	9.79	23.51	
25.0	25.1	30.74	9.88	23.65	
29.9	30.0	31.03	10.11	23.84	
34.9	35.0	31.17	10.18	23.93	
39.9	40.0	31.23	10.20	23.98	
44.8	44.9	31.29	10.22	24.02	
49.9	50.1	31.34	10.20	24.06	2.04
59.9	60.1	31.37	10.17	24.09	
69.9	70.1	31.44	10.14	24.15	
74.8	75.1	31.54	10.05	24.24	2.32
79.8	80.1	31.60	10.00	24.30	
89.7	90.1	31.74	9.90	24.43	
99.6	100.0	31.77	9.88	24.45	1.32
110.4	110.9	31.79	9.87	24.47	
114.6	115.2	31.80	9.86	24.48	

CRUISE NO: 19 ALBERNI PROGRAM
LAT N 49 12.16
DATE 11/ 3/81
TIME (PST) 1602

TAPE: U01166 -416
LONG W 124 49.02
PASS NO. 51
STN: A0

DEPTH	PRESS	SAL	TEMP	SIGMA-T
3.3	3.3	16.11	9.34	12.33
5.0	5.0	22.12	9.37	17.00
10.0	10.0	30.03	9.65	23.13
15.0	15.0	30.41	9.94	23.38
20.1	20.1	30.78	10.19	23.63
25.0	25.0	30.95	10.18	23.76
29.9	30.0	31.01	10.21	23.80
34.9	35.0	31.15	10.25	23.91
38.7	38.8	31.20	10.24	23.95

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COASTAL ZONE OCEANOGRAPHY
CRUISE NO:    20 ALBERNI PROGRAM              TAPE: U01166    -417
LAT  N 49 12.16                               LONG W 124 49.02
DATE 22/ 4/81                                 PASS NO.  1
TIME (PST) 0946                               STN: A0

 DEPTH      PRESS       SAL       TEMP    SIGMA-T
   2.5        2.5      8.02      11.29      5.82
   5.0        4.9     10.52      11.21      7.76
  10.1       10.0     28.05      10.06     21.52
  15.1       15.0     30.89      10.05     23.74
  20.1       20.0     31.20      10.05     23.98
  25.0       25.0     31.39      10.08     24.12
  30.0       30.0     31.50      10.02     24.22
  35.0       35.0     31.63       9.94     24.33
  40.0       40.0     31.70       9.90     24.39
  45.0       45.1     31.75       9.87     24.44
  49.9       50.0     31.78       9.85     24.47
  53.5       53.6     31.80       9.84     24.48

CRUISE NO:    20 ALBERNI PROGRAM              TAPE: U01166    -418
LAT  N 49  9.91                               LONG W 124 48.62
DATE 22/ 4/81                                 PASS NO.  3
TIME (PST) 1013                               STN: A1

 DEPTH      PRESS       SAL       TEMP    SIGMA-T    OXYGEN
   3.7        3.6      9.50      11.11      6.98
   5.0        4.9     10.82      10.96      8.02
  10.1       10.0     28.98       9.98     22.26
  15.0       15.0     31.08       9.94     23.90
  20.1       20.1     31.30       9.99     24.07
  24.9       24.9     31.44      10.03     24.17
  30.0       30.0     31.55       9.98     24.26
  34.9       34.9     31.61       9.94     24.32
  40.0       40.0     31.69       9.90     24.39
  45.0       45.1     31.73       9.87     24.43
  49.9       50.0     31.76       9.86     24.45     3.04
  59.8       59.9     31.81       9.84     24.49
  69.9       70.1     31.84       9.82     24.52
  74.7       75.0     31.85       9.82     24.53     3.29
  79.8       80.1     31.87       9.82     24.54
  89.7       90.0     31.88       9.82     24.55
  99.6      100.0     31.89       9.81     24.56     3.34
 108.4      108.9     31.89       9.82     24.56
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COASTAL ZONE OCEANOGRAPHY
CRUISE NO:    20 ALBERNI PROGRAM            TAPE: U01166   -419
LAT  N 49  7.15                             LONG W 124 48.80
DATE 22/ 4/81                               PASS NO.  5
TIME (PST) 1054                             STN: A2

 DEPTH      PRESS       SAL       TEMP    SIGMA-T   OXYGEN
   3.6        3.6     17.77      10.69     13.45
   5.1        5.0     20.07      10.56     15.25
  10.0        9.9     29.85       9.96     22.94
  15.0       15.0     30.93       9.83     23.81
  19.9       20.0     31.18       9.84     24.00
  24.9       25.0     31.36       9.85     24.13
  29.9       29.9     31.48       9.92     24.22
  34.9       35.0     31.57       9.91     24.29
  39.9       40.0     31.69       9.90     24.38
  44.9       45.1     31.71       9.88     24.41
  49.8       50.0     31.75       9.86     24.44    2.96
  59.7       60.0     31.81       9.83     24.49
  69.7       70.0     31.83       9.81     24.51
  74.7       75.0     31.85       9.81     24.53    3.41
  79.7       80.0     31.86       9.80     24.53
  89.7       90.1     31.87       9.80     24.54
 100.4      100.9     31.88       9.79     24.56    3.48
 109.7      110.2     31.89       9.78     24.56
 119.6      120.1     31.89       9.78     24.56
 125.4      126.0     31.89       9.78     24.56    3.46
 127.5      128.1     31.89       9.78     24.57

CRUISE NO:    20 ALBERNI PROGRAM            TAPE: U01166   -420
LAT  N 49  5.50                             LONG W 124 49.50
DATE 22/ 4/81                               PASS NO.  7
TIME (PST) 1129                             STN: A3

 DEPTH      PRESS       SAL       TEMP    SIGMA-T
   4.0        3.9     14.94      10.80     11.24
   5.1        5.1     17.06      10.64     12.90
  10.1       10.0     24.56      10.23     18.78
  15.1       15.0     31.19       9.81     24.01
  19.9       19.9     31.39       9.81     24.16
  25.0       25.0     31.51       9.80     24.26
  30.0       30.1     31.67       9.80     24.39
  35.0       35.1     31.72       9.79     24.43
  40.0       40.1     31.91       9.76     24.58
  44.9       45.0     32.04       9.71     24.69
  49.9       50.1     32.16       9.67     24.79
  59.8       60.0     32.16       9.67     24.79
  69.7       70.0     32.17       9.66     24.80
  79.7       80.1     32.18       9.66     24.81
  89.7       90.0     32.19       9.65     24.82
  99.6      100.1     32.19       9.65     24.82
 104.3      104.8     32.19       9.65     24.82
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COASTAL ZONE OCEANOGRAPHY
CRUISE NO:   20 ALBERNI PROGRAM           TAPE: U01166   -421
LAT  N 49  2.70                           LONG W 124 51.11
DATE 22/ 4/81                             PASS NO.  9
TIME (PST) 1202                           STN: A4

 DEPTH     PRESS      SAL       TEMP    SIGMA-T
   3.1       3.0     16.97     10.69     12.82
   5.0       5.0     18.78     10.60     14.24
  10.1      10.0     30.87      9.68     23.78
  15.0      15.0     31.21      9.70     24.04
  20.0      20.0     31.39      9.84     24.16
  25.0      25.0     31.58      9.84     24.31
  29.9      29.9     31.76      9.81     24.46
  34.9      35.0     31.83      9.80     24.51
  39.8      40.0     31.89      9.79     24.56
  44.8      45.0     31.99      9.76     24.64
  49.8      50.0     32.09      9.71     24.73
  59.7      59.9     32.21      9.62     24.84
  69.7      70.0     32.25      9.58     24.88
  79.7      80.1     32.32      9.51     24.94
  89.7      90.1     32.37      9.48     24.98
  99.6     100.1     32.41      9.45     25.02
 109.5     110.0     32.45      9.38     25.06
 120.4     121.0     32.49      9.37     25.10
 130.4     131.0     32.51      9.24     25.14
 140.2     140.9     32.55      9.13     25.18
 150.2     151.0     32.58      9.06     25.22
 160.2     161.0     32.64      8.94     25.28
 170.1     171.0     32.67      8.89     25.31
 180.0     180.9     32.68      8.85     25.33
 190.0     191.0     32.71      8.80     25.36
 199.9     201.0     32.74      8.75     25.39
 224.7     226.0     32.76      8.72     25.41
 249.6     251.1     32.76      8.71     25.41
 275.3     277.0     32.76      8.70     25.42
 292.0     293.8     32.77      8.69     25.42
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COASTAL ZONE OCEANOGRAPHY

CRUISE NO: 20 ALBERNI PROGRAM
LAT N 48 59.58
DATE 22/ 4/81
TIME (PST) 1254

TAPE: U01166 -422
LONG W 124 53.38
PASS NO. 11
STN: A5

DEPTH	PRESS	SAL	TEMP	SIGMA-T	OXYGEN
3.6	3.5	18.05	10.92	13.63	
5.0	4.9	22.66	10.58	17.25	
10.0	10.0	29.71	9.81	22.86	
15.1	15.1	30.99	9.50	23.91	
20.0	20.1	31.19	9.63	24.04	
25.0	25.0	31.43	9.80	24.20	
30.0	30.0	31.65	9.85	24.36	
35.0	35.1	31.78	9.83	24.47	
39.7	39.9	31.83	9.81	24.51	
44.9	45.1	31.93	9.76	24.60	
49.8	49.9	32.02	9.71	24.68	4.51
59.8	60.1	32.15	9.66	24.78	
69.7	70.0	32.19	9.64	24.82	
74.8	75.1	32.26	9.60	24.88	4.32
79.6	80.0	32.27	9.59	24.89	
89.5	89.9	32.32	9.57	24.94	
100.5	100.9	32.42	9.54	25.02	4.44
110.5	111.0	32.46	9.52	25.05	
120.5	121.1	32.48	9.48	25.07	
125.5	126.1	32.49	9.50	25.08	4.15
130.3	131.0	32.51	9.47	25.09	
140.4	141.1	32.54	9.37	25.14	
150.1	150.9	32.56	9.23	25.18	3.06
160.2	161.1	32.59	9.07	25.23	
170.2	171.1	32.63	8.99	25.27	
180.1	181.0	32.70	8.86	25.34	
190.1	191.1	32.71	8.83	25.36	
199.9	201.0	32.72	8.80	25.37	1.75
224.7	225.9	32.75	8.73	25.40	
249.6	251.0	32.75	8.74	25.40	1.64
275.4	277.1	32.75	8.73	25.40	
300.2	302.0	32.76	8.72	25.41	1.54
325.1	327.1	32.76	8.72	25.41	1.52
331.8	333.8	32.76	8.72	25.41	

COASTAL ZONE OCEANOGRAPHY
CRUISE NO: 20 ALBERNI PROGRAM   TAPE: U01166   -423
LAT N 48 58.78   LONG W 124 57.80
DATE 22/ 4/81   PASS NO. 13
TIME (PST) 1352   STN: A6

DEPTH	PRESS	SAL	TEMP	SIGMA-T
3.5	3.5	17.28	10.96	13.03
5.0	4.9	18.72	10.98	14.14
10.0	10.0	29.49	9.82	22.69
15.0	15.0	30.96	9.55	23.87
20.0	20.0	31.23	9.64	24.07
25.0	25.0	31.43	9.81	24.20
30.0	30.1	31.61	9.84	24.33
34.9	35.0	31.71	9.79	24.42
39.8	39.9	31.83	9.78	24.52
44.9	45.0	31.93	9.75	24.60
49.9	50.1	32.06	9.68	24.71
59.8	60.0	32.14	9.66	24.78
69.7	70.0	32.24	9.64	24.86
79.6	80.0	32.30	9.62	24.91
89.6	90.0	32.40	9.60	24.99
99.5	99.9	32.45	9.56	25.03
109.6	110.1	32.49	9.52	25.07
120.4	120.9	32.50	9.50	25.08
130.3	130.9	32.53	9.44	25.12
140.3	141.0	32.57	9.31	25.17
150.1	150.8	32.60	9.18	25.21
160.1	161.0	32.66	9.00	25.29
170.1	171.0	32.67	8.93	25.31
178.0	179.0	32.68	8.93	25.31

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COASTAL ZONE OCEANOGRAPHY

CRUISE NO:   20 ALBERNI PROGRAM              TAPE: U01166    -424
LAT  N 48 57.02                              LONG W 125  1.30
DATE 22/ 4/81                                PASS NO. 15
TIME (PST) 1437                              STN: A7

 DEPTH     PRESS      SAL      TEMP    SIGMA-T   OXYGEN
   3.2       3.2     21.98    11.25    16.63
   5.0       5.0     22.22    11.25    16.81
  10.1      10.1     30.38     9.59    23.42
  15.1      15.1     31.01     9.43    23.93
  20.0      20.0     31.13     9.43    24.02
  24.9      25.0     31.41     9.63    24.21
  29.9      30.0     31.68     9.70    24.41
  34.9      35.0     31.74     9.68    24.46
  39.9      40.1     31.84     9.66    24.54
  44.9      45.0     31.94     9.65    24.63
  49.8      49.9     32.08     9.67    24.73    4.60
  59.7      59.9     32.20     9.65    24.82
  69.7      70.0     32.24     9.65    24.86
  74.6      75.0     32.28     9.63    24.89    4.61
  79.6      79.9     32.32     9.62    24.92
  89.5      90.0     32.39     9.60    24.98
 100.4     100.9     32.45     9.55    25.04    4.37
 110.4     111.0     32.50     9.50    25.08
 120.5     121.1     32.52     9.46    25.11
 125.3     126.0     32.53     9.43    25.12    3.83
 130.4     131.0     32.55     9.39    25.14
 140.3     141.0     32.58     9.27    25.19
 150.2     151.0     32.61     9.13    25.23    2.55
 160.2     161.0     32.64     9.04    25.26
 170.1     171.0     32.66     8.98    25.29
 180.0     181.0     32.67     8.91    25.31
 190.0     191.0     32.68     8.88    25.32
 199.9     201.0     32.69     8.84    25.34    1.36
 224.7     226.0     32.71     8.80    25.36
 229.7     231.1     32.71     8.80    25.36
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COASTAL ZONE OCEANOGRAPHY
CRUISE NO: 20 ALBERNI PROGRAM TAPE: U01166 -425
LAT N 48 57.72 LONG W 125 4.48
DATE 22/ 4/81 PASS NO. 17
TIME (PST) 1520 STN: A11

DEPTH	PRESS	SAL	TEMP	SIGMA-T
5.0	5.0	24.70	11.15	18.75
10.1	10.1	27.46	10.71	20.96
14.9	15.0	30.43	9.78	23.43
20.1	20.1	30.99	9.32	23.93
25.0	25.0	31.11	9.30	24.03
29.9	30.0	31.48	9.40	24.30
34.9	35.0	31.59	9.43	24.39
39.9	40.0	31.69	9.45	24.46
44.9	45.0	31.80	9.55	24.53
49.8	50.0	31.99	9.63	24.67
59.8	60.0	32.12	9.65	24.76
69.8	70.1	32.22	9.65	24.84
79.6	79.9	32.38	9.60	24.98
89.7	90.1	32.47	9.55	25.06
99.6	100.1	32.49	9.54	25.07
110.5	111.1	32.50	9.53	25.08
120.3	120.9	32.51	9.52	25.09
125.9	126.6	32.51	9.52	25.09

CRUISE NO: 20 ALBERNI PROGRAM TAPE: U01166 -426
LAT N 48 58.20 LONG W 125 7.80
DATE 22/ 4/81 PASS NO. 19
TIME (PST) 1548 STN: A12

DEPTH	PRESS	SAL	TEMP	SIGMA-T	OXYGEN
4.9	4.9	26.19	11.09	19.92	
10.0	10.0	28.81	10.47	22.05	
15.0	15.1	30.75	9.45	23.72	
20.0	20.0	30.94	9.31	23.89	
25.0	25.1	31.12	9.22	24.05	
29.8	29.9	31.30	9.24	24.19	
34.8	35.0	31.53	9.35	24.35	
39.9	40.0	31.67	9.51	24.44	
44.7	44.9	31.78	9.54	24.51	
49.8	50.0	31.98	9.68	24.65	4.58
59.9	60.2	32.16	9.66	24.79	
69.8	70.1	32.28	9.66	24.89	
74.8	75.1	32.34	9.65	24.94	4.72
79.7	80.0	32.39	9.63	24.98	
89.7	90.1	32.47	9.56	25.05	4.01
93.6	94.1	32.49	9.52	25.08	

COASTAL ZONE OCEANOGRAPHY
CRUISE NO: 20 ALBERNI PROGRAM
LAT N 48 54.15
DATE 22/ 4/81
TIME (PST) 1640

TAPE: UD1166 -427
LONG W 125 12.95
PASS NO. 21
STN: A13

DEPTH	PRESS	SAL	TEMP	SIGMA-T
3.3	3.3	29.77	9.89	22.89
4.9	5.0	29.79	9.85	22.91
10.0	10.0	30.10	9.81	23.16
15.0	15.0	30.54	9.69	23.52
19.8	19.9	30.79	9.45	23.75
24.9	25.0	31.02	9.19	23.98
29.9	30.1	31.08	9.20	24.03
34.9	35.1	31.25	9.16	24.16
39.8	39.9	31.54	9.34	24.36
44.8	45.0	31.70	9.43	24.47
49.7	50.0	31.83	9.44	24.57
59.7	60.0	32.10	9.66	24.75
69.7	70.1	32.27	9.64	24.88
79.7	80.1	32.39	9.64	24.97
89.6	90.1	32.40	9.27	25.04
100.5	101.0	32.45	9.16	25.10
101.4	101.9	32.45	9.14	25.10

CRUISE NO: 20 ALBERNI PROGRAM
LAT N 48 50.05
DATE 22/ 4/81
TIME (PST) 1718

TAPE: UD1166 -428
LONG W 125 15.80
PASS NO. 23
STN: A14

DEPTH	PRESS	SAL	TEMP	SIGMA-T	OXYGEN
3.1	3.1	30.06	10.06	23.09	
5.1	5.1	30.04	10.06	23.07	
10.0	10.0	30.31	10.03	23.29	
15.0	15.1	30.51	9.93	23.46	
19.9	20.0	30.60	9.77	23.56	
25.0	25.1	30.71	9.67	23.66	
29.9	30.0	30.99	9.36	23.92	
34.9	35.0	31.45	9.23	24.30	
39.8	40.0	31.65	9.31	24.45	
44.9	45.1	31.84	9.53	24.56	
49.8	50.0	31.89	9.59	24.59	5.02
59.7	60.0	32.06	9.60	24.72	
70.3	70.7	32.16	9.43	24.83	
74.8	75.2	32.25	9.49	24.89	4.88
79.6	80.0	32.28	9.40	24.93	
89.7	90.2	32.40	9.17	25.06	
99.4	99.9	32.50	8.98	25.17	

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COASTAL ZONE OCEANOGRAPHY
CRUISE NO:   20 ALBERNI PROGRAM          TAPE: U01166   -429
LAT  N 48 44.80                          LONG W 125 21.60
DATE 22/ 4/81                            PASS NO. 25
TIME (PST) 1834                          STN: A15

 DEPTH     PRESS      SAL       TEMP    SIGMA-T
  10.1      10.0     30.32     10.09     23.29
  15.0      15.0     30.38     10.08     23.34
  20.1      20.1     30.64      9.67     23.61
  24.8      24.8     31.30      9.15     24.20
  29.8      29.9     31.52      8.84     24.42
  35.4      35.5     31.73      8.66     24.62
  40.0      40.1     31.78      8.72     24.64
  45.0      45.2     31.90      8.64     24.75
  49.9      50.1     31.96      8.60     24.80
  59.8      60.0     32.11      8.57     24.93
  69.6      69.9     32.19      8.57     24.99
  79.6      80.0     32.28      8.57     25.05
  89.5      89.9     32.53      8.45     25.27
  96.5      97.0     32.59      8.40     25.33

CRUISE NO:   20 ALBERNI PROGRAM          TAPE: U01166   -430
LAT  N 48 48.20                          LONG W 125 14.40
DATE 22/ 4/81                            PASS NO. 27
TIME (PST) 1926                          STN: A10

 DEPTH     PRESS      SAL       TEMP    SIGMA-T
   2.4       2.4      2.46      9.95      1.63
   5.2       5.1     30.16      9.97     23.18
  10.0       9.9     30.22      9.94     23.24
  15.0      15.0     30.56      9.81     23.52
  20.0      20.0     30.81      9.62     23.74
  25.0      25.0     31.16      9.35     24.06
  30.0      30.1     31.53      8.89     24.42
  34.9      35.0     31.54      8.96     24.42
  39.9      40.0     31.54      9.01     24.41
  43.8      43.9     31.64      9.24     24.46
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COASTAL ZONE OCEANOGRAPHY
CRUISE NO: 20 ALBERNI PROGRAM
LAT N 48 51.50
DATE 22/ 4/81
TIME (PST) 2015

TAPE: U01166 -431
LONG W 125 8.10
PASS NO. 29
STN: A9

DEPTH	PRESS	SAL	TEMP	SIGMA-T	OXYGEN
3.4	3.4	27.23	10.65	20.79	
5.0	5.0	29.05	10.18	22.28	
10.0	10.0	30.34	9.74	23.36	
14.9	15.0	30.45	9.69	23.45	
19.8	19.9	30.74	9.48	23.71	
24.9	25.0	31.28	9.42	24.14	
29.9	30.0	31.57	9.39	24.37	
34.9	35.0	31.80	9.54	24.53	
39.9	40.1	31.98	9.58	24.67	
44.9	45.1	32.04	9.65	24.70	
49.8	50.0	32.12	9.66	24.76	3.82
59.8	60.1	32.22	9.59	24.85	
69.7	70.0	32.27	9.55	24.90	
74.7	75.0	32.29	9.53	24.92	3.46
79.5	79.9	32.33	9.50	24.95	
89.6	90.0	32.37	9.47	24.99	
99.5	100.0	32.41	9.46	25.02	3.54
110.4	110.9	32.46	9.41	25.06	
120.4	121.1	32.52	9.26	25.14	
125.3	126.0	32.52	9.25	25.14	2.37
128.3	129.0	32.53	9.25	25.14	

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COASTAL ZONE OCEANOGRAPHY

CRUISE NO:   20 ALBERNI PROGRAM          TAPE: U01166   -432
LAT  N 48 53.78                          LONG W 125  3.05
DATE 22/ 4/81                            PASS NO. 31
TIME (PST) 2118                          STN: A8

 DEPTH     PRESS      SAL      TEMP    SIGMA-T
   4.4       4.4     25.77     11.00    19.61
   5.0       5.0     26.26     10.95    19.99
   9.9       9.9     29.78      9.95    22.89
  14.9      14.9     30.56      9.55    23.56
  20.0      20.1     30.81      9.42    23.78
  24.9      25.0     31.25      9.43    24.12
  29.9      30.0     31.37      9.50    24.20
  35.0      35.1     31.59      9.60    24.36
  39.8      40.0     31.75      9.66    24.47
  44.9      45.0     31.86      9.69    24.56
  49.8      50.0     32.01      9.69    24.67
  59.7      60.0     32.16      9.65    24.79
  69.6      69.9     32.21      9.63    24.84
  79.6      80.0     32.30      9.59    24.92
  89.5      90.0     32.40      9.56    24.99
  99.6     100.1     32.43      9.56    25.02
 110.4     111.0     32.47      9.52    25.06
 119.5     120.1     32.53      9.38    25.13
 130.3     131.0     32.54      9.36    25.14
 140.3     141.0     32.58      9.19    25.19
 150.2     151.0     32.61      9.08    25.24
 160.1     160.9     32.62      9.07    25.24
 169.2     170.1     32.61      9.06    25.24
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COASTAL ZONE OCEANOGRAPHY
CRUISE NO:    21 ALBERNI PROGRAM           TAPE: U01166   -433
LAT  N 49 12.16                            LONG W 124 49.02
DATE  7/ 6/81                              PASS NO.  0
TIME (PST) 1352                            STN: A0

 DEPTH     PRESS      SAL      TEMP   SIGMA-T
   2.1       2.0     4.14     15.37     2.23
   5.7       5.6     6.96     15.01     4.45
  10.1      10.0    30.66     10.25    23.52
  15.1      15.1    31.45      9.98    24.18
  19.9      19.9    31.62      9.94    24.32
  25.0      25.0    31.75      9.90    24.44
  30.0      30.0    31.86      9.83    24.53
  35.0      35.0    31.95      9.76    24.62
  40.0      40.0    32.02      9.71    24.68
  44.9      45.0    32.06      9.70    24.71
  49.9      50.0    32.08      9.69    24.73
  53.8      53.9    32.10      9.68    24.74

CRUISE NO:    21 ALBERNI PROGRAM           TAPE: U01166   -434
LAT  N 49  9.91                            LONG W 124 48.62
DATE  7/ 6/81                              PASS NO.  0
TIME (PST) 1427                            STN: A1

 DEPTH     PRESS      SAL      TEMP   SIGMA-T   OXYGEN
   2.1       2.0     9.69     15.11     6.53
   5.8       5.7    13.77     14.01     9.85
  10.1      10.0    30.85     10.18    23.69
  15.0      15.0    31.42      9.98    24.16
  20.1      20.0    31.70      9.90    24.40
  25.0      25.0    31.84      9.84    24.51
  30.1      30.2    31.95      9.76    24.61
  34.9      35.0    31.99      9.72    24.65
  39.9      40.0    32.05      9.69    24.70
  44.9      45.0    32.08      9.68    24.73
  49.9      50.0    32.10      9.67    24.74    3.14
  59.8      59.9    32.12      9.66    24.76
  69.7      69.9    32.13      9.65    24.77
  74.7      75.0    32.14      9.65    24.78    3.16
  79.8      80.0    32.14      9.65    24.78
  89.7      90.0    32.15      9.64    24.79
  99.6     100.0    32.16      9.64    24.79    3.13
 102.5     103.0    32.16      9.64    24.79
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COASTAL ZONE OCEANOGRAPHY
CRUISE NO:    21 ALBERNI PROGRAM          TAPE: U01166    -435
LAT  N 49  7.15                           LONG W 124 48.80
DATE  7/ 6/81                             PASS NO.  0
TIME (PST) 1500                           STN: A2

 DEPTH     PRESS      SAL      TEMP    SIGMA-T   OXYGEN
   2.1       2.0    10.28     14.96      7.01
   5.7       5.6    11.66     14.80      8.09
  10.1      10.0    30.17     10.44     23.11
  15.0      15.0    31.34      9.97     24.11
  20.0      20.0    31.60      9.85     24.32
  24.9      24.9    31.64      9.83     24.36
  30.0      30.1    31.79      9.77     24.49
  35.0      35.1    31.88      9.73     24.57
  39.9      40.0    31.96      9.69     24.63
  44.9      45.0    32.02      9.67     24.68
  49.8      50.0    32.04      9.67     24.70    3.22
  59.8      60.0    32.09      9.67     24.74
  69.7      69.9    32.12      9.64     24.77
  74.7      74.9    32.13      9.62     24.78    3.29
  79.7      80.0    32.13      9.61     24.78
  89.7      90.0    32.14      9.61     24.79
  99.6     100.0    32.15      9.60     24.79    3.32
 109.5     110.0    32.15      9.60     24.80
 120.5     121.0    32.16      9.61     24.80
 125.5     126.0    32.16      9.61     24.80    3.22
 130.5     131.1    32.16      9.61     24.80
 134.2     134.8    32.17      9.61     24.81
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CRUISE NO:    21 ALBERNI PROGRAM          TAPE: U01166    -436
LAT  N 49  5.50                           LONG W 124 49.50
DATE  7/ 6/81                             PASS NO.  0
TIME (PST) 1548                           STN: A3

 DEPTH     PRESS      SAL      TEMP    SIGMA-T
   2.0       2.0    15.65     13.74     11.34
   5.9       5.9    23.08     12.35     17.30
  10.1      10.1    30.65     10.34     23.51
  15.1      15.1    31.26     10.02     24.03
  19.9      19.9    31.54      9.88     24.27
  24.9      25.0    31.83      9.75     24.52
  30.0      30.0    31.97      9.68     24.64
  34.9      35.0    32.07      9.63     24.72
  39.9      40.0    32.09      9.62     24.74
  44.8      45.0    32.13      9.60     24.78
  49.8      50.0    32.22      9.54     24.86
  59.8      60.0    32.33      9.47     24.96
  69.8      70.1    32.44      9.39     25.05
  79.6      80.0    32.45      9.39     25.06
  89.6      90.0    32.45      9.39     25.06
  99.5     100.0    32.45      9.39     25.06
 105.4     105.9    32.45      9.39     25.06
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COASTAL ZONE OCEANOGRAPHY
CRUISE NO:   21 ALBERNI PROGRAM          TAPE: U01166   -437
LAT  N 49  2.70                          LONG W 124 51.11
DATE  7/ 6/81                            PASS NO.  0
TIME (PST) 1618                          STN: A4

 DEPTH     PRESS      SAL       TEMP    SIGMA-T
   2.4       2.4     19.43     13.37     14.30
   6.5       6.4     27.41     12.69     20.58
   9.9       9.9     30.66     10.70     23.45
  15.1      15.1     31.28     10.10     24.03
  20.0      20.1     31.54      9.91     24.27
  25.0      25.0     31.80      9.81     24.49
  30.0      30.1     31.91      9.74     24.59
  34.9      35.0     32.04      9.67     24.70
  40.0      40.1     32.19      9.58     24.83
  44.8      45.0     32.27      9.56     24.89
  49.8      50.0     32.42      9.49     25.02
  59.8      60.1     32.52      9.28     25.13
  69.7      70.0     32.56      9.14     25.19
  79.6      80.0     32.59      9.04     25.23
  89.5      90.0     32.60      8.91     25.26
  99.5     100.0     32.63      8.81     25.29
 110.5     111.0     32.65      8.74     25.32
 120.4     121.0     32.67      8.74     25.33
 130.3     131.0     32.68      8.74     25.35
 140.3     141.1     32.69      8.76     25.35
 150.2     151.0     32.70      8.76     25.36
 160.0     160.9     32.70      8.75     25.36
 170.1     171.1     32.71      8.77     25.36
 180.1     181.1     32.71      8.77     25.36
 190.0     191.1     32.71      8.78     25.36
 199.8     201.0     32.71      8.78     25.36
 224.7     226.0     32.71      8.70     25.37
 250.5     252.0     32.67      8.55     25.36
 275.3     276.9     32.67      8.57     25.36
 282.3     284.0     32.66      8.48     25.37
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COASTAL ZONE OCEANOGRAPHY

CRUISE NO:    21 ALBERNI PROGRAM             TAPE: U01166    -438
LAT  N 48 59.58                              LONG W 124 53.38
DATE  7/ 6/81                                PASS NO.  0
TIME (PST) 1705                              STN: A5

 DEPTH      PRESS       SAL       TEMP     SIGMA-T   OXYGEN
   2.0        2.0      20.40      13.17     15.09     6.26
   6.6        6.6      29.73      11.08     22.67
   9.9        9.9      31.06      10.53     23.79
  15.0       15.0      31.34      10.12     24.08
  19.8       19.9      31.61       9.86     24.33
  24.9       25.0      31.74       9.82     24.44     3.33
  29.9       30.0      31.90       9.76     24.58
  34.9       35.0      32.00       9.70     24.66
  39.9       40.0      32.11       9.65     24.76
  44.7       44.9      32.18       9.60     24.81
  49.8       50.1      32.32       9.54     24.94     3.86
  59.8       60.0      32.49       9.30     25.11
  69.6       70.0      32.54       9.14     25.17
  74.7       75.1      32.55       9.06     25.19     2.86
  79.6       80.0      32.57       8.92     25.23
  89.6       90.0      32.60       8.79     25.27
 100.5      101.0      32.62       8.67     25.31     2.77
 110.4      111.0      32.63       8.64     25.32
 120.4      121.1      32.63       8.62     25.33
 130.3      131.0      32.65       8.61     25.34
 140.2      141.0      32.66       8.60     25.35
 150.2      151.1      32.66       8.59     25.35     2.53
 160.0      160.9      32.66       8.58     25.36
 170.0      170.9      32.67       8.60     25.36
 180.0      181.0      32.67       8.61     25.36
 190.0      191.1      32.67       8.59     25.36
 199.8      201.0      32.66       8.57     25.36     2.69
 224.7      226.1      32.66       8.54     25.36
 250.5      252.0      32.66       8.52     25.36     2.69
 275.3      277.0      32.66       8.51     25.37
 300.2      302.1      32.66       8.47     25.37
 325.0      327.0      32.66       8.48     25.37
 349.7      352.0      32.66       8.48     25.37
 351.7      354.0      32.66       8.48     25.37
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COASTAL ZONE OCEANOGRAPHY
CRUISE NO: 21 ALBERNI PROGRAM
LAT N 48 58.78
DATE 7/ 6/81
TIME (PST) 1827

TAPE: U01166 -439
LONG W 124 57.80
PASS NO. 0
STN: A6

DEPTH	PRESS	SAL	TEMP	SIGMA-T
1.9	1.9	18.44	13.11	13.59
5.6	5.6	24.36	13.23	18.13
10.0	10.0	31.17	10.53	23.88
15.1	15.1	31.33	10.25	24.05
19.9	20.0	31.52	9.92	24.25
24.9	25.0	31.67	9.79	24.39
29.9	30.0	31.95	9.75	24.61
34.9	35.1	32.11	9.65	24.76
40.0	40.1	32.22	9.58	24.86
44.7	44.9	32.30	9.53	24.93
49.9	50.1	32.41	9.43	25.02
59.8	60.0	32.50	9.22	25.13
69.7	70.0	32.54	9.07	25.18
79.6	80.0	32.56	8.95	25.21
89.7	90.1	32.57	8.81	25.24
99.5	100.0	32.60	8.67	25.29
110.4	111.0	32.62	8.61	25.31
120.5	121.1	32.64	8.56	25.34
130.3	131.0	32.65	8.51	25.35
140.2	140.9	32.65	8.45	25.37
150.2	151.0	32.66	8.41	25.38
160.0	160.9	32.68	8.38	25.40
170.1	171.0	32.68	8.37	25.40
180.0	181.0	32.69	8.36	25.41

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COASTAL ZONE OCEANOGRAPHY

CRUISE NO:    21 ALBERNI PROGRAM              TAPE: U01166    -440
LAT   N 48 57.02                              LONG W 125   1.30
DATE   7/ 6/81                               .PASS NO.   0
TIME (PST) 1904                               STN: A7

 DEPTH      PRESS        SAL        TEMP     SIGMA-T    OXYGEN
   2.2        2.2      23.06       13.30      17.11
   5.8        5.8      26.79       12.64      20.11
  10.0       10.0      30.89       10.90      23.60
  15.0       15.1      31.49        9.95      24.23
  20.0       20.0      31.83        9.53      24.55
  24.9       24.9      31.88        9.54      24.59
  30.0       30.1      31.97        9.69      24.64
  34.8       35.0      32.13        9.61      24.78
  39.9       40.0      32.28        9.51      24.91
  44.8       45.0      32.34        9.42      24.97
  49.7       49.9      32.41        9.21      25.06      3.21
  59.8       60.1      32.48        9.06      25.13
  69.6       70.0      32.50        8.92      25.18
  74.6       75.0      32.52        8.84      25.20      3.00
  79.6       80.0      32.53        8.80      25.22
  89.5       89.9      32.57        8.66      25.27
  99.5      100.0      32.59        8.59      25.30      3.12
 110.3      110.9      32.62        8.54      25.32
 120.3      120.9      32.65        8.45      25.36
 125.3      126.0      32.65        8.44      25.36      2.97
 130.3      131.0      32.65        8.45      25.36
 140.2      141.0      32.65        8.42      25.37
 150.1      151.0      32.66        8.42      25.37      2.94
 160.0      161.0      32.66        8.42      25.38
 170.1      171.0      32.66        8.40      25.38
 180.0      181.0      32.67        8.40      25.39
 184.9      186.0      32.67        8.40      25.39
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COASTAL ZONE OCEANOGRAPHY
CRUISE NO:    21 ALBERNI PROGRAM           TAPE: U01166    -441
LAT   N 48 57.72                           LONG W 125   4.48
DATE   7/ 6/81                             PASS NO.   0
TIME (PST) 1951                            STN: A11

 DEPTH      PRESS       SAL       TEMP    SIGMA-T
   2.1        2.1     19.94      14.69     14.46
   6.0        6.0     30.52      11.10     23.27
  10.0       10.0     31.26      10.38     23.97
  15.0       15.1     31.41      10.04     24.14
  19.9       20.0     31.69       9.67     24.42
  25.0       25.0     31.79       9.59     24.52
  30.0       30.1     31.92       9.52     24.63
  34.9       35.0     32.04       9.46     24.73
  39.8       40.0     32.18       9.42     24.85
  44.8       45.0     32.39       9.22     25.04
  49.8       50.1     32.46       9.09     25.12
  59.8       60.0     32.54       8.75     25.23
  69.6       70.0     32.63       8.46     25.35
  79.6       80.0     32.65       8.40     25.37
  89.6       90.1     32.67       8.37     25.39
 100.4      100.9     32.67       8.35     25.40
 110.4      111.0     32.67       8.34     25.40
 120.4      121.0     32.68       8.34     25.40
 130.3      131.0     32.68       8.33     25.40
 140.3      141.1     32.68       8.32     25.41
 150.2      151.0     32.69       8.32     25.41
 152.0      152.9     32.69       8.32     25.41

CRUISE NO:    21 ALBERNI PROGRAM           TAPE: U01166    -442
LAT   N 48 58.20                           LONG W 125   7.80
DATE   7/ 6/81                             PASS NO.   0
TIME (PST) 2026                            STN: A12

 DEPTH      PRESS       SAL       TEMP    SIGMA-T    OXYGEN
   2.0        2.0     22.24      15.06     16.15
   5.6        5.6     23.68      14.97     17.28
  10.0       10.0     31.19      10.41     23.91
  15.0       15.0     31.43       9.88     24.19
  20.0       20.0     31.57       9.65     24.33
  25.0       25.1     31.66       9.50     24.43
  29.9       30.0     31.86       9.41     24.60
  34.8       34.9     31.94       9.40     24.67
  39.9       40.1     32.11       9.35     24.81
  44.8       44.9     32.20       9.25     24.89
  49.8       50.0     32.41       9.07     25.08      3.24
  59.8       60.0     32.54       8.74     25.23
  69.7       70.0     32.63       8.44     25.35
  74.6       75.0     32.64       8.42     25.36      2.93
  79.7       80.1     32.65       8.39     25.37
  87.5       87.9     32.68       8.32     25.41
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COASTAL ZONE OCEANOGRAPHY
CRUISE NO: 21 ALBERNI PROGRAM TAPE: U01166 -443
LAT N 48 54.15 LONG W 125 12.95
DATE 7/ 6/81 PASS NO. 0
TIME (PST) 2117 STN: A13

DEPTH	PRESS	SAL	TEMP	SIGMA-T
2.0	2.0	29.57	12.71	22.25
5.7	5.7	29.63	12.69	22.30
9.9	10.0	30.42	11.82	23.07
15.0	15.1	31.09	10.82	23.77
20.0	20.1	31.55	9.85	24.29
25.0	25.1	31.70	9.49	24.46
29.9	30.0	31.85	9.41	24.59
34.8	34.9	31.92	9.36	24.66
39.8	40.0	32.05	9.35	24.75
44.8	45.0	32.10	9.28	24.81
49.9	50.1	32.18	9.18	24.89
59.6	59.9	32.51	8.76	25.21
69.7	70.0	32.62	8.41	25.35
79.6	80.0	32.68	8.31	25.41
89.6	90.1	32.74	8.20	25.47
100.5	101.0	32.78	8.13	25.51
102.2	102.8	32.78	8.13	25.51

CRUISE NO: 21 ALBERNI PROGRAM TAPE: U01166 -444
LAT N 48 50.05 LONG W 125 15.80
DATE 7/ 6/81 PASS NO. 0
TIME (PST) 2145 STN: A14

DEPTH	PRESS	SAL	TEMP	SIGMA-T	OXYGEN
1.9	1.9	29.90	12.12	22.62	
5.6	5.6	30.42	11.73	23.09	
10.0	10.1	30.98	10.75	23.69	
15.0	15.1	31.20	10.30	23.94	
19.9	20.0	31.42	9.86	24.18	
25.1	25.2	31.64	9.53	24.40	
29.9	30.0	31.79	9.33	24.56	
34.8	35.0	31.92	9.04	24.70	
39.9	40.1	32.05	8.85	24.83	
44.7	44.9	32.08	8.84	24.86	
49.7	50.0	32.11	8.90	24.87	3.83
59.7	59.9	32.34	8.88	25.06	
69.6	69.9	32.48	8.67	25.19	
74.6	75.0	32.56	8.43	25.29	3.27
79.7	80.1	32.61	8.35	25.35	
89.6	90.1	32.63	8.30	25.37	
95.4	95.9	32.63	8.30	25.37	3.23
97.3	97.8	32.64	8.29	25.38	

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COASTAL ZONE OCEANOGRAPHY
CRUISE NO:   21 ALBERNI PROGRAM          TAPE: U01166   -445
LAT  N 48 44.80                          LONG W 125 21.60
DATE  7/ 6/81                            PASS NO.  0
TIME (PST) 2235                          STN: A15

 DEPTH      PRESS      SAL       TEMP    SIGMA-T
   1.9        1.9     30.49     12.47     23.00
   5.6        5.6     30.57     12.41     23.08
   9.9       10.0     31.15     10.45     23.88
  15.0       15.1     31.40     10.01     24.14
  19.9       20.0     31.64      9.56     24.40
  25.0       25.1     31.78      9.27     24.56
  30.0       30.1     31.92      9.04     24.70
  34.8       35.0     32.16      8.73     24.94
  39.8       40.0     32.29      8.54     25.07
  44.7       45.0     32.37      8.46     25.15
  49.8       50.0     32.46      8.46     25.21
  59.7       60.0     32.57      8.30     25.32
  69.6       69.9     32.70      8.17     25.44
  79.6       80.0     32.79      8.10     25.52
  89.5       90.0     32.83      8.09     25.56
  92.2       92.7     32.89      8.01     25.62
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CRUISE NO:   21 ALBERNI PROGRAM          TAPE: U01166   -446
LAT  N 48 48.20                          LONG W 125 14.40
DATE  7/ 6/81                            PASS NO.  0
TIME (PST) 2313                          STN: A10

 DEPTH      PRESS      SAL       TEMP    SIGMA-T
   2.0        2.0     30.58     11.16     23.31
   5.7        5.7     31.05     10.56     23.78
   9.9        9.9     31.38     10.00     24.13
  14.9       15.0     31.55      9.73     24.30
  19.8       19.9     31.73      9.43     24.49
  24.9       25.0     31.95      9.01     24.73
  29.9       30.0     32.02      8.94     24.80
  34.7       34.9     32.06      8.91     24.83
  37.6       37.7     32.08      8.86     24.86
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COASTAL ZONE OCEANOGRAPHY
CRUISE NO:   21 ALBERNI PROGRAM          TAPE: U01166   -447
LAT  N 48 51.50                          LONG W 125  8.10
DATE  7/ 6/81                            PASS NO.  0
TIME (PST) 2354                          STN: A9

 DEPTH     PRESS      SAL      TEMP    SIGMA-T   OXYGEN
   2.1       2.1     29.13    12.31    21.98
   5.6       5.6     29.87    11.79    22.65
  10.0      10.0     31.00    10.73    23.71
  15.0      15.0     31.34    10.19    24.07
  19.9      20.0     31.62     9.75    24.35
  24.9      25.0     31.84     9.63    24.55
  30.0      30.1     31.91     9.56    24.61
  34.8      35.0     31.98     9.56    24.67
  39.9      40.1     32.16     9.52    24.82
  44.8      45.0     32.32     9.42    24.96
  49.7      49.9     32.37     9.35    25.01    3.03
  59.7      60.0     32.46     9.17    25.10
  69.6      70.0     32.51     8.94    25.18
  74.6      75.0     32.54     8.79    25.22    2.82
  79.7      80.1     32.54     8.78    25.23
  89.5      90.0     32.55     8.69    25.25
 100.5     101.0     32.56     8.68    25.26    2.96
 110.4     111.0     32.60     8.52    25.31
 120.4     121.0     32.62     8.49    25.33
 125.2     125.9     32.62     8.48    25.34    2.92
 130.3     131.1     32.62     8.48    25.34
 136.2     137.0     32.63     8.47    25.35
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COASTAL ZONE OCEANOGRAPHY

CRUISE NO:   21 ALBERNI PROGRAM          TAPE: U01166   -448
LAT  N 48 53.78                          LONG W 125  3.05
DATE  8/ 6/81                            PASS NO.  0
TIME (PST) 0044                          STN: A8

 DEPTH     PRESS      SAL      TEMP    SIGMA-T
   2.4       2.4     26.31     13.40    19.60
   5.6       5.6     26.75     13.39    19.94
  10.0      10.0     30.99     10.43    23.75
  15.0      15.0     31.31     10.13    24.05
  19.9      20.0     31.54      9.82    24.28
  24.9      25.0     31.73      9.64    24.46
  29.9      30.0     31.83      9.58    24.55
  34.9      35.1     31.97      9.51    24.67
  39.9      40.1     32.08      9.49    24.76
  44.8      45.0     32.18      9.41    24.85
  49.8      50.0     32.29      9.37    24.94
  59.7      60.0     32.38      9.29    25.02
  69.6      70.0     32.51      8.94    25.18
  79.7      80.1     32.52      8.84    25.21
  89.6      90.1     32.55      8.70    25.25
 100.6     101.1     32.57      8.65    25.27
 110.4     111.0     32.59      8.57    25.30
 120.4     121.0     32.62      8.50    25.33
 130.3     131.0     32.64      8.45    25.36
 140.3     141.1     32.64      8.46    25.35
 150.2     151.0     32.65      8.44    25.36
 160.0     160.9     32.65      8.44    25.36
 170.0     170.9     32.65      8.43    25.37
 180.0     181.1     32.66      8.42    25.37
 180.7     181.8     32.66      8.42    25.37
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COASTAL ZONE OCEANOGRAPHY
CRUISE NO: 22 ALBERNI PROGRAM   TAPE: U01166   -449
LAT N 49 12.16   LONG W 124 49.02
DATE 7/ 9/81   PASS NO. 47
TIME (PST) 0617   STN: A0

DEPTH	PRESS	SAL	TEMP	SIGMA-T
.5	.5	23.59	13.95	17.40
2.0	2.0	28.22	12.30	21.28
4.9	4.9	31.42	10.90	24.01
10.0	10.1	31.59	10.55	24.20
14.9	15.0	31.68	10.29	24.32
19.8	19.9	31.76	10.19	24.39
24.9	25.0	31.84	10.01	24.49
29.9	30.0	31.90	9.92	24.54
34.9	35.0	31.97	9.80	24.62
39.9	40.0	32.04	9.69	24.69
44.8	45.0	32.08	9.63	24.74
49.8	50.0	32.11	9.59	24.77
59.7	60.0	32.16	9.52	24.81
65.6	66.0	32.17	9.49	24.83

CRUISE NO: 22 ALBERNI PROGRAM   TAPE: U01166   -450
LAT N 49 9.91   LONG W 124 48.62
DATE 7/ 9/81   PASS NO. 49
TIME (PST) 0638   STN: A1

DEPTH	PRESS	SAL	TEMP	SIGMA-T	OXYGEN
.4	.4	24.47	13.40	18.18	
2.0	2.0	27.83	12.70	20.90	
5.0	5.0	29.81	12.21	22.53	
10.0	10.0	31.53	10.96	24.08	
15.0	15.0	31.68	10.63	24.26	
20.0	20.0	31.79	10.35	24.39	
24.9	25.0	31.87	10.16	24.49	
30.0	30.1	31.94	9.95	24.58	
34.8	35.0	32.00	9.80	24.65	
39.9	40.1	32.07	9.65	24.73	
44.8	45.0	32.11	9.60	24.76	
49.8	50.1	32.13	9.56	24.79	1.61
59.8	60.1	32.16	9.50	24.82	
69.7	70.0	32.20	9.45	24.86	
74.6	75.0	32.22	9.42	24.88	1.71
79.5	79.9	32.24	9.38	24.90	
89.5	90.0	32.25	9.36	24.91	
100.4	101.0	32.27	9.34	24.93	1.74
106.4	107.0	32.27	9.34	24.93	

COASTAL ZONE OCEANOGRAPHY
CRUISE NO: 22 ALBERNI PROGRAM
LAT N 49 7.15
DATE 7/ 9/81
TIME (PST) 0711

TAPE: U01166 -451
LONG W 124 48.80
PASS NO. 51
STN: A2

DEPTH	PRESS	SAL	TEMP	SIGMA-T	OXYGEN
.6	.6	11.46	17.09	7.52	
2.0	2.0	26.20	13.29	19.54	
5.0	5.0	31.24	11.23	23.81	
10.0	10.0	31.62	10.72	24.20	
15.0	15.0	31.68	10.63	24.25	
20.0	20.0	31.78	10.41	24.38	
24.9	25.0	31.85	10.27	24.45	
29.9	30.0	31.88	10.19	24.48	
34.9	35.0	31.93	10.06	24.55	
39.8	40.0	31.99	9.94	24.61	
44.8	45.0	32.07	9.77	24.70	
49.8	50.0	32.12	9.65	24.77	2.38
59.7	60.0	32.18	9.53	24.83	
69.7	70.0	32.21	9.48	24.86	
74.6	75.0	32.22	9.46	24.87	2.36
79.6	80.0	32.23	9.42	24.89	
89.6	90.0	32.25	9.39	24.90	
100.4	100.9	32.26	9.35	24.92	2.02
110.4	111.0	32.27	9.34	24.93	
120.3	121.0	32.27	9.33	24.93	
124.2	124.8	32.27	9.32	24.93	

CRUISE NO: 22 ALBERNI PROGRAM
LAT N 49 5.50
DATE 7/ 9/81
TIME (PST) 0746

TAPE: U01166 -452
LONG W 124 49.50
PASS NO. 53
STN: A3

DEPTH	PRESS	SAL	TEMP	SIGMA-T
.3	.3	21.97	14.48	16.06
2.0	2.0	28.63	12.22	21.61
5.1	5.1	31.07	11.29	23.67
10.0	10.0	31.70	10.66	24.27
14.9	15.0	31.84	10.30	24.44
19.9	20.0	31.96	10.02	24.58
24.9	25.0	32.06	9.81	24.69
29.8	30.0	32.15	9.62	24.79
34.8	35.0	32.27	9.38	24.93
39.8	40.0	32.39	9.13	25.06
44.8	45.1	32.41	9.06	25.09
49.8	50.0	32.45	8.98	25.13
59.8	60.1	32.55	8.77	25.24
69.8	70.1	32.58	8.72	25.27
79.6	80.0	32.59	8.70	25.28
90.5	91.0	32.60	8.68	25.29
100.4	101.0	32.60	8.67	25.29
110.4	111.0	32.61	8.66	25.30
113.4	114.0	32.61	8.66	25.30

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COASTAL ZONE OCEANOGRAPHY
CRUISE NO:    22 ALBERNI PROGRAM             TAPE: U01166    -453
LAT  N 49  2.70                              LONG W 124 51.11
DATE  7/ 9/81                                PASS NO. 55
TIME (PST) 0813                              STN: A4

  DEPTH      PRESS       SAL       TEMP    SIGMA-T
     .3         .3     22.15      14.84     16.12
    2.1        2.1     27.68      12.80     20.77
    4.9        4.9     31.45      11.04     24.01
    9.9       10.0     31.78      10.55     24.35
   15.0       15.1     31.83      10.31     24.42
   19.9       20.0     31.89      10.08     24.52
   25.0       25.1     31.99       9.85     24.63
   29.9       30.0     32.09       9.69     24.73
   34.9       35.0     32.20       9.48     24.85
   39.8       40.0     32.33       9.19     25.00
   44.8       45.0     32.38       9.06     25.06
   49.7       50.0     32.57       8.71     25.26
   59.7       60.0     32.73       8.36     25.44
   69.6       70.0     32.78       8.25     25.50
   79.5       79.9     32.81       8.19     25.53
   89.6       90.1     32.85       8.14     25.56
  100.4      101.0     32.87       8.11     25.59
  110.3      111.0     32.89       8.09     25.60
  120.3      121.0     32.90       8.07     25.61
  130.3      131.0     32.90       8.06     25.62
  140.3      141.1     32.91       8.05     25.63
  150.2      151.1     32.92       8.05     25.63
  160.0      161.0     32.92       8.04     25.64
  169.9      170.9     32.93       8.04     25.64
  179.9      181.0     32.93       8.03     25.65
  189.8      191.0     32.93       8.03     25.65
  199.8      201.0     32.94       8.03     25.65
  224.6      226.0     32.94       8.03     25.65
  250.4      252.0     32.94       8.03     25.65
  275.3      277.1     32.94       8.03     25.66
  283.9      285.8     32.94       8.03     25.66
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COASTAL ZONE OCEANOGRAPHY

CRUISE NO: 22 ALBERNI PROGRAM
LAT N 48 59.58
DATE 7/ 9/81
TIME (PST) 0857

TAPE: U01166 -454
LONG W 124 53.38
PASS NO. 57
STN: A5

DEPTH	PRESS	SAL	TEMP	SIGMA-T	OXYGEN
.4	.4	18.66	16.24	13.18	
2.0	2.0	29.49	11.85	22.35	
5.0	5.0	31.70	10.76	24.25	
9.9	9.9	31.75	10.59	24.32	
14.9	15.0	31.82	10.35	24.41	
19.9	20.0	31.93	9.99	24.56	
24.9	25.0	32.01	9.79	24.66	
29.9	30.0	32.10	9.63	24.75	
34.8	35.0	32.21	9.35	24.88	
39.8	40.0	32.29	9.15	24.98	
44.8	45.0	32.41	8.96	25.10	
49.7	49.9	32.53	8.75	25.23	1.91
59.8	60.1	32.70	8.44	25.40	
69.6	70.0	32.75	8.33	25.46	
74.7	75.1	32.79	8.24	25.50	1.91
79.5	80.0	32.81	8.21	25.52	
89.5	90.0	32.85	8.14	25.56	
100.4	101.0	32.87	8.11	25.59	1.87
110.4	111.0	32.88	8.09	25.60	
120.3	121.0	32.90	8.07	25.62	
125.3	126.0	32.91	8.07	25.62	1.71
130.2	131.0	32.91	8.06	25.63	
140.2	141.0	32.92	8.05	25.64	
150.2	151.1	32.92	8.05	25.64	1.67
160.1	161.0	32.92	8.05	25.64	
170.0	171.0	32.93	8.04	25.64	
179.8	180.9	32.93	8.04	25.65	
189.8	191.0	32.93	8.03	25.65	
199.8	201.0	32.94	8.03	25.65	1.74
224.6	226.1	32.94	8.03	25.65	
250.4	252.0	32.94	8.03	25.65	1.67
275.2	277.0	32.94	8.03	25.65	
300.1	302.1	32.94	8.03	25.65	1.69
324.8	327.0	32.94	8.04	25.65	
339.7	342.0	32.94	8.04	25.65	1.62
343.5	345.8	32.94	8.04	25.65	

COASTAL ZONE OCEANOGRAPHY
CRUISE NO: 22 ALBERNI PROGRAM
LAT N 48 58.78
DATE 7/ 9/81
TIME (PST) 0958

TAPE: U01166 -455
LONG W 124 57.80
PASS NO. 59
STN: A6

DEPTH	PRESS	SAL	TEMP	SIGMA-T
5.1	5.1	29.26	12.26	22.09
10.0	10.0	31.65	10.91	24.18
14.9	14.9	31.72	10.60	24.30
19.9	20.0	31.84	10.24	24.45
24.8	24.9	31.92	9.95	24.56
30.0	30.1	32.03	9.68	24.69
34.8	35.0	32.13	9.40	24.81
39.8	40.0	32.20	9.24	24.89
44.8	45.0	32.35	8.99	25.05
49.7	50.0	32.46	8.82	25.16
59.7	60.0	32.70	8.42	25.41
69.7	70.0	32.77	8.28	25.49
79.6	80.0	32.82	8.19	25.54
89.6	90.1	32.86	8.14	25.57
100.4	101.0	32.88	8.09	25.60
110.4	111.0	32.90	8.08	25.61
120.3	121.0	32.90	8.08	25.61
130.3	131.0	32.92	8.08	25.63
140.2	141.0	32.92	8.08	25.63
150.1	151.0	32.93	8.06	25.64
160.0	160.9	32.94	8.05	25.65
170.0	171.1	32.94	8.04	25.66
172.8	173.9	32.94	8.03	25.66

COASTAL ZONE OCEANOGRAPHY

CRUISE NO: 22 ALBERNI PROGRAM
LAT N 48 57.02
DATE 7/ 9/81
TIME (PST) 1109

TAPE: U01166 -456
LONG W 125 1.30
PASS NO. 63
STN: A7

DEPTH	PRESS	SAL	TEMP	SIGMA-T	OXYGEN
.6	.6	27.80	13.40	20.75	
2.0	2.0	28.34	13.15	21.22	
5.0	5.0	30.09	12.29	22.73	
9.9	9.9	31.69	10.75	24.24	
14.9	14.9	31.81	10.23	24.43	
19.9	20.0	31.88	10.01	24.52	
24.9	25.0	31.99	9.72	24.65	3.67
29.8	30.0	31.98	9.70	24.65	
34.9	35.1	32.11	9.40	24.79	
39.8	40.0	32.25	9.14	24.95	
44.9	45.1	32.41	8.88	25.11	
49.8	50.1	32.58	8.61	25.28	2.36
59.6	59.9	32.74	8.34	25.45	
69.7	70.0	32.78	8.26	25.49	
74.5	74.9	32.79	8.24	25.51	1.11
79.6	80.1	32.81	8.21	25.53	
90.4	90.9	32.86	8.16	25.57	
99.5	100.1	32.87	8.15	25.58	1.41
110.3	110.9	32.89	8.12	25.60	
120.3	121.0	32.91	8.10	25.62	
125.3	126.1	32.91	8.09	25.62	1.52
130.2	131.0	32.91	8.09	25.62	
140.2	141.1	32.92	8.09	25.63	
150.1	151.0	32.94	8.07	25.64	
160.2	161.1	32.94	8.06	25.65	
169.9	170.9	32.95	8.06	25.66	
174.9	176.0	32.95	8.06	25.66	1.70
179.9	181.0	32.95	8.06	25.66	
189.8	191.0	32.95	8.06	25.66	
199.7	200.9	32.95	8.06	25.66	
212.6	213.9	32.95	8.06	25.66	

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COASTAL ZONE OCEANOGRAPHY
CRUISE NO:    22 ALBERNI PROGRAM          TAPE: U01166    -457
LAT  N 48 58.20                           LONG W 125  7.80
DATE  7/ 9/81                             PASS NO. 63
TIME (PST) 1158                           STN: A12

 DEPTH      PRESS       SAL       TEMP     SIGMA-T   OXYGEN
    .2         .2      29.73     14.83      21.95
   2.0        2.0      29.94     14.35      22.21
   5.0        5.0      30.73     12.95      23.10
  10.0       10.0      31.61     10.87      24.16
  14.9       15.0      31.73     10.39      24.34
  19.9       20.0      31.85      9.97      24.50
  24.9       25.0      31.97      9.60      24.65
  29.9       30.0      32.04      9.46      24.73
  34.8       35.0      32.13      9.32      24.82
  39.7       39.9      32.19      9.22      24.88
  44.7       44.9      32.34      9.01      25.03
  49.8       50.0      32.50      8.74      25.21     2.43
  59.7       60.0      32.74      8.37      25.45
  69.6       70.0      32.86      8.16      25.57
  74.6       75.0      32.89      8.13      25.60     1.52
  79.6       80.1      32.91      8.10      25.62
  84.5       85.0      32.97      8.04      25.68     1.89
  90.2       90.7      33.04      7.99      25.74
  90.2       90.7      33.04      7.99      25.74

CRUISE NO:    22 ALBERNI PROGRAM          TAPE: U01166    -458
LAT  N 48 54.15                           LONG W 125 12.95
DATE  7/ 9/81                             PASS NO. 65
TIME (PST) 1241                           STN: A13

 DEPTH      PRESS       SAL       TEMP     SIGMA-T
    .3         .4      30.72     14.13      22.86
   1.9        1.9      30.82     13.90      22.99
   5.1        5.1      31.38     12.25      23.73
  10.0       10.0      31.63     10.78      24.19
  14.9       14.9      31.68     10.53      24.28
  19.9       20.0      31.76     10.24      24.39
  24.9       25.0      31.84      9.98      24.49
  30.0       30.1      31.95      9.67      24.63
  34.8       35.0      32.09      9.53      24.76
  39.7       39.9      32.19      9.38      24.86
  44.9       45.1      32.26      9.12      24.96
  49.7       49.9      32.40      8.90      25.10
  59.7       60.0      32.67      8.48      25.38
  69.5       69.9      32.81      8.25      25.52
  79.5       80.0      32.94      8.10      25.64
  90.5       91.0      33.08      8.00      25.77
  98.5       99.1      33.13      7.92      25.82
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COASTAL ZONE OCEANOGRAPHY
CRUISE NO:    22 ALBERNI PROGRAM              TAPE: U01166    -459
LAT  N 48 50.05                               LONG W 125 15.80
DATE  7/ 9/81                                 PASS NO. 67
TIME (PST) 1312                               STN: A14

 DEPTH       PRESS       SAL       TEMP     SIGMA-T    OXYGEN

   1.8         1.8      30.46      13.74     22.73
   5.0         5.1      30.94      12.97     23.26
   9.9         9.9      31.61      10.91     24.15
  14.9        15.0      31.74      10.46     24.34
  20.0        20.1      31.87      10.06     24.50
  25.0        25.1      32.01       9.69     24.67
  30.0        30.2      32.14       9.66     24.78
  34.8        35.0      32.15       9.52     24.81
  39.8        40.0      32.20       9.53     24.85
  44.7        45.0      32.28       9.48     24.92
  49.8        50.0      32.36       9.24     25.02     3.83
  59.6        59.9      32.60       8.70     25.29
  69.6        69.9      32.77       8.43     25.46
  74.6        75.0      32.80       8.33     25.50     2.43
  80.5        81.0      32.88       8.17     25.59
  90.4        90.9      32.98       8.10     25.67     2.37
  97.1        97.6      33.02       8.05     25.71

CRUISE NO:    22 ALBERNI PROGRAM              TAPE: U01166    -460
LAT  N 48 48.20                               LONG W 125 14.40
DATE  7/ 9/81                                 PASS NO. 69
TIME (PST) 1341                               STN: A10

 DEPTH       PRESS       SAL       TEMP     SIGMA-T
    .2          .2      31.60      11.90     23.97
   1.9         1.9      31.61      11.85     23.98
   4.9         5.0      31.76      11.71     24.13
   9.9        10.0      31.82      10.87     24.32
  14.8        14.8      31.90      10.11     24.51
  19.9        20.0      31.99       9.87     24.62
  24.9        25.0      32.10       9.77     24.73
  29.8        30.0      32.20       9.49     24.85
  33.6        33.8      32.22       9.43     24.88
  33.6        33.8      32.22       9.43     24.88
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COASTAL ZONE OCEANOGRAPHY
CRUISE NO:   22 ALBERNI PROGRAM                TAPE: U01166   -461
LAT  N 48 51.50                                LONG W 125  8.10
DATE  7/ 9/81                                  PASS NO. 71
TIME (PST) 1423                                STN: A9

 DEPTH     PRESS      SAL      TEMP    SIGMA-T    OXYGEN

   2.0       2.0     31.35     11.51    23.86
   5.0       5.0     31.24     11.70    23.72
  10.0      10.0     31.70     10.68    24.26
  14.9      14.9     31.82     10.20    24.44
  19.8      19.9     31.92      9.98    24.55
  24.8      24.9     31.99      9.83    24.63
  29.9      30.1     32.06      9.68    24.71
  34.8      35.0     32.10      9.58    24.76
  39.8      40.0     32.21      9.33    24.89
  44.7      45.0     32.36      8.97    25.06
  49.7      50.0     32.53      8.67    25.24     1.24
  59.7      60.0     32.71      8.37    25.43
  69.6      70.0     32.80      8.23    25.51
  74.5      74.9     32.81      8.21    25.53      .71
  79.5      80.0     32.82      8.20    25.53
  90.5      91.0     32.85      8.15    25.56
 100.5     101.0     32.85      8.14    25.57     1.05
 110.4     111.0     32.89      8.09    25.60
 120.3     121.0     32.89      8.09    25.61
 125.3     126.0     32.89      8.08    25.61     1.34
 126.2     126.9     32.89      8.08    25.61
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